MIERUZZO

DK-5000 Series

Electronic Tally Device

MIERUZZO SOFTWARE

USER'S MANUAL

DK-5005A, DK-5010A, DK-5030A
DK-5005B, DK-5010B, DK-5030B
DK-5005C, DK-5010C, DK-5030C

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*Contents are subject to change even without prior notice.

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0 SYSTEM REQUIREMENTS

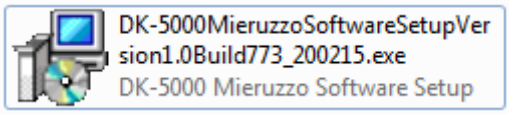
Below are the minimum system requirements to install and run the **DK-5000 Mieruzzo Software**:

Processor	Pentium 2 266MHz
Operating System	Windows 7, 8, 8.1
Disk Space	Application: 50MB
	Java Runtime Environment: 160MB
Memory	1 GB

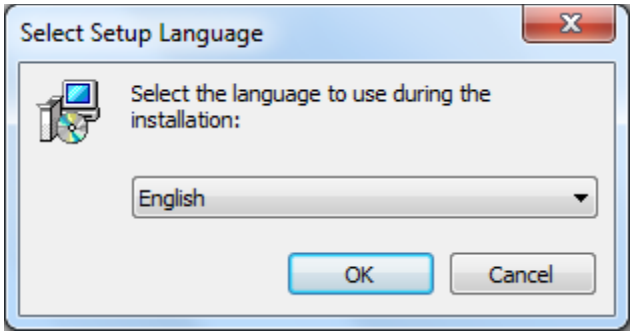
1 INSTALLING DK-5000 MIERUZZO SOFTWARE AND DRIVER

1.1 DK-5000 MIERUZZO SOFTWARE INSTALLATION

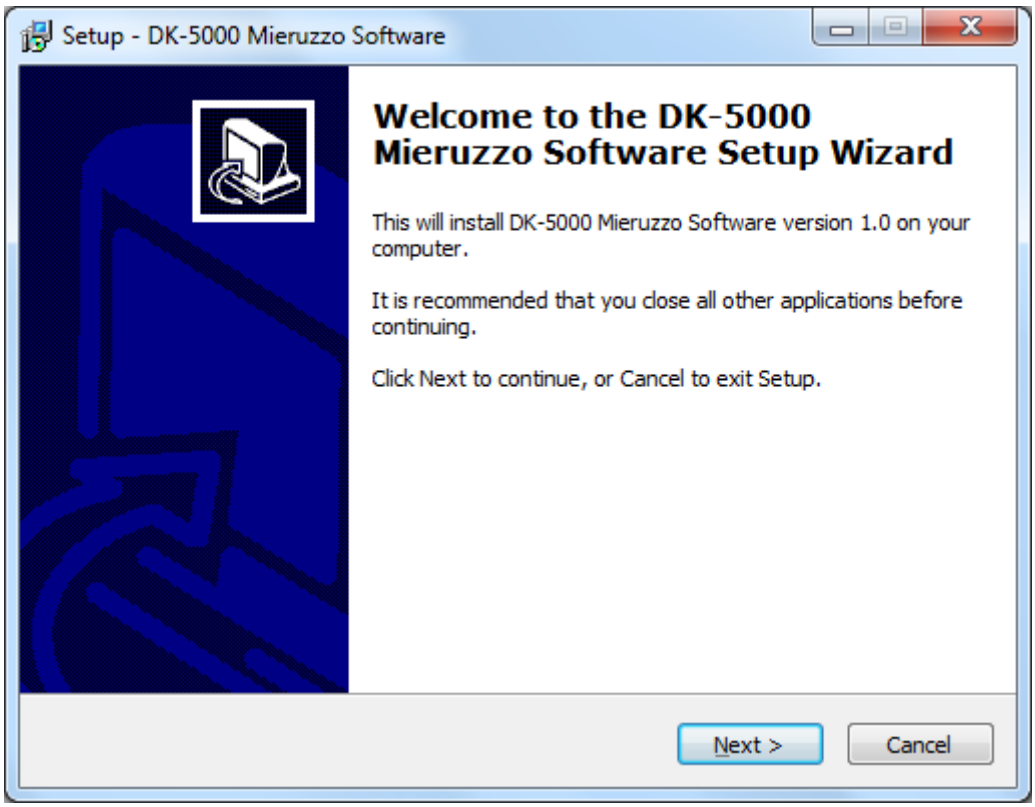
1.1.1 Double-click or run the software installer.



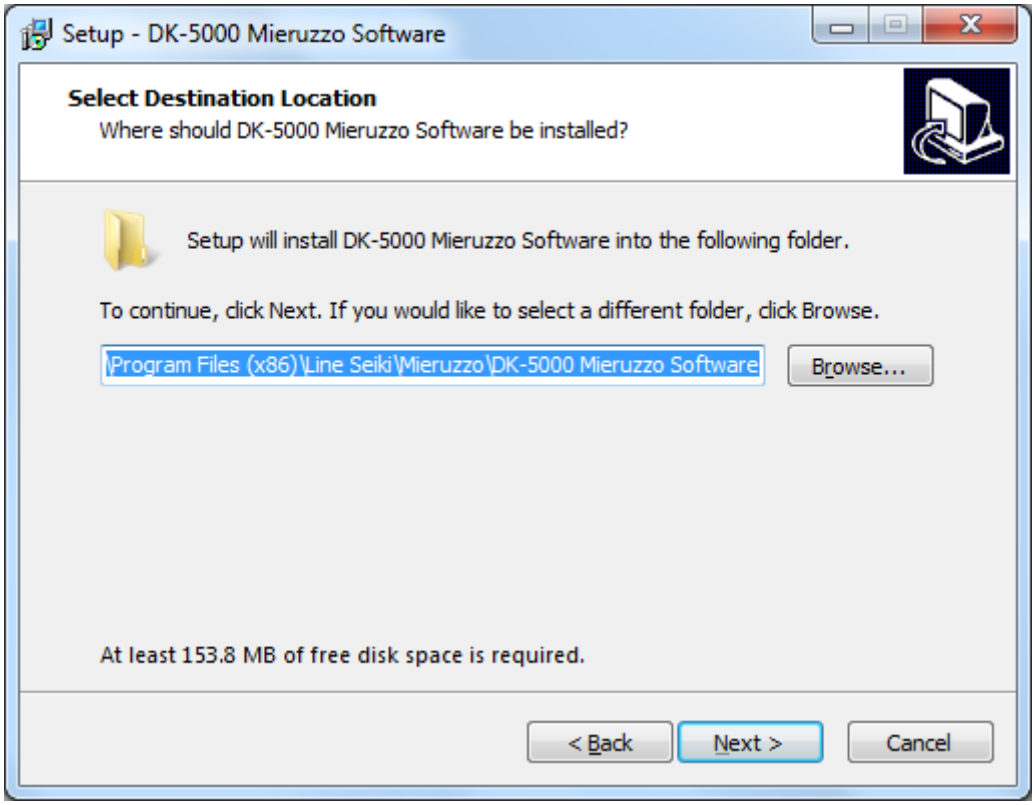
1.1.2 Select the language to use. Click OK to continue with the software installation.



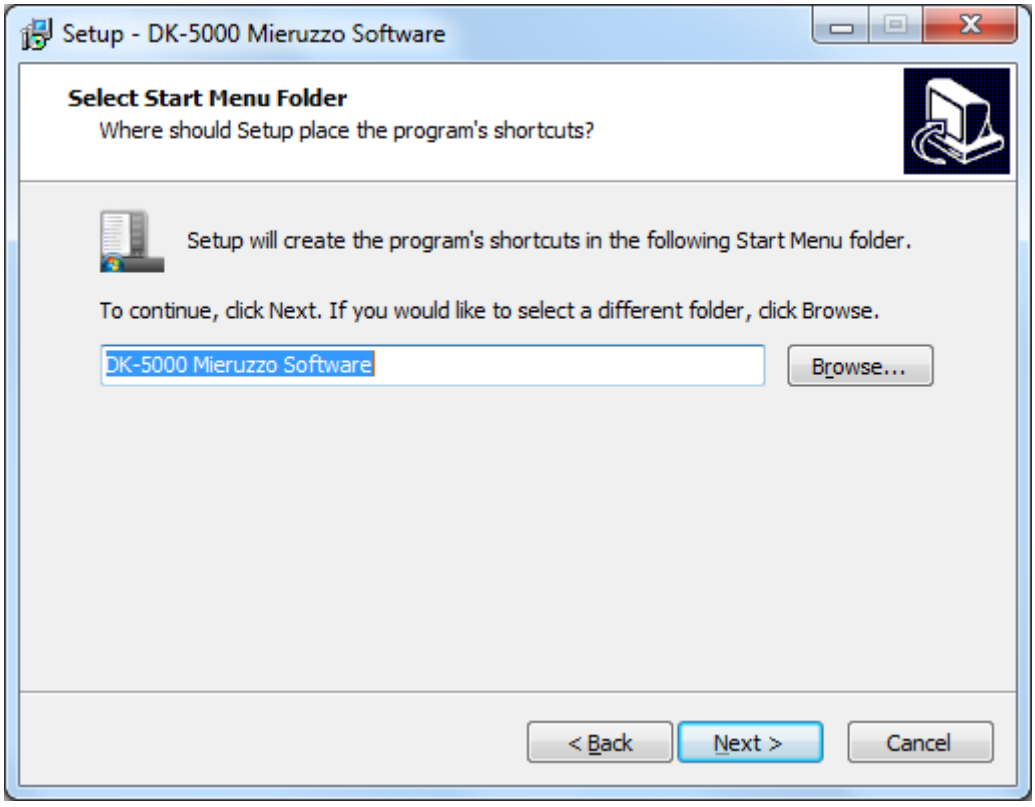
1.1.3 The DK-5000 Mieruzzo Software Setup Wizard will start. Click Next to continue with the software installation.


Setup - DK-5000 Mieruzzo Software
Welcome to the DK-5000 Mieruzzo Software Setup Wizard
This will install DK-5000 Mieruzzo Software version 1.0 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

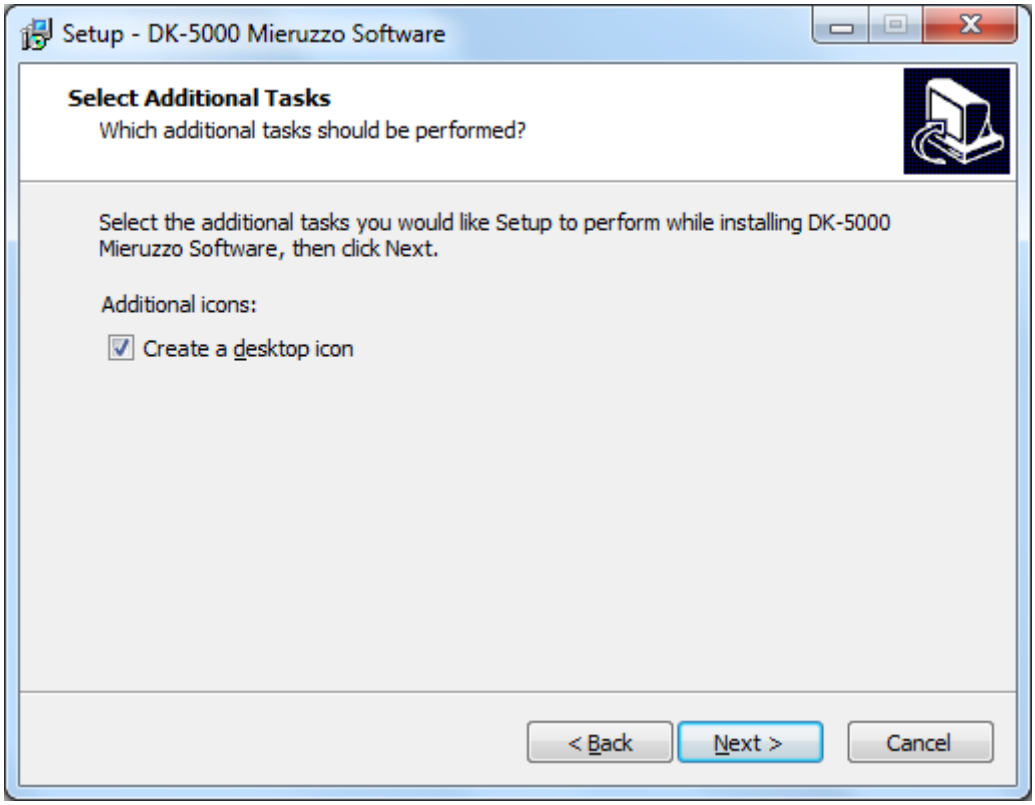
1.1.4 Select the default installation folder or browse for a new location. Click Next to continue with the software installation.


Setup - DK-5000 Mieruzzo Software
Select Destination Location
Where should DK-5000 Mieruzzo Software be installed?
Setup will install DK-5000 Mieruzzo Software into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
\Program Files (x86)\Line Seiki\Mieruzzo\DK-5000 Mieruzzo Software
Browse...
At least 153.8 MB of free disk space is required.
< Back
Next >
Cancel

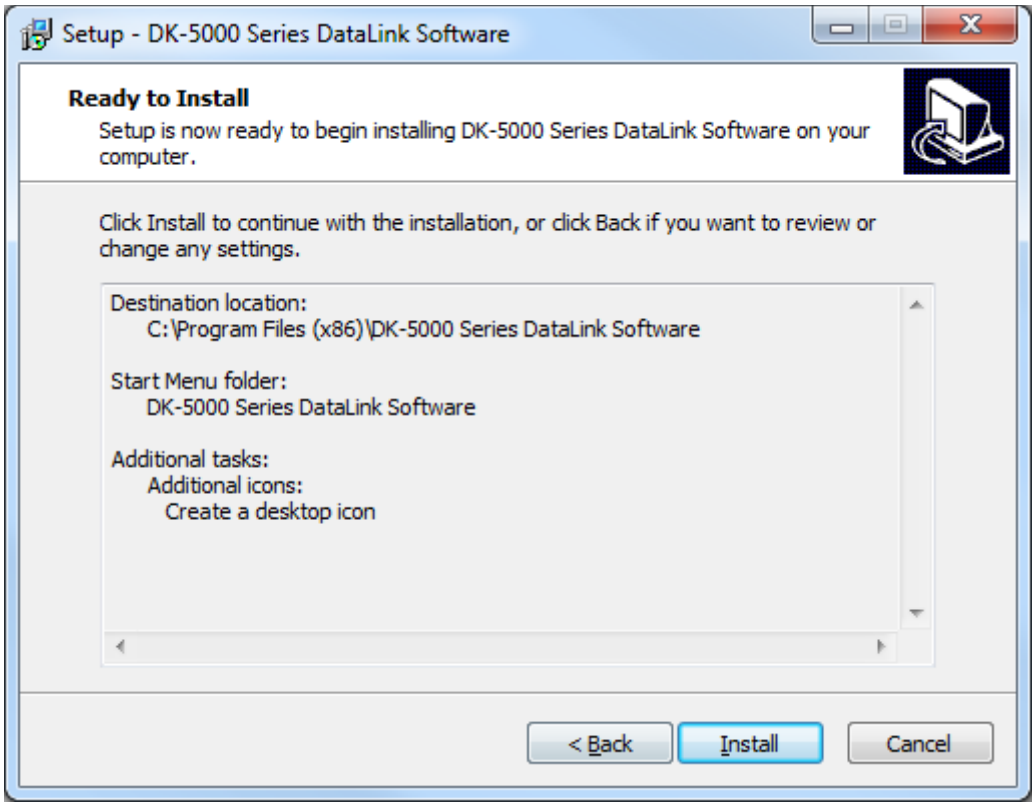
1.1.5 Select the default location of program's shortcut or browse for a new location. Click Next to continue with the software installation.


Setup - DK-5000 Mieruzzo Software
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
DK-5000 Mieruzzo Software
Browse...
< Back
Next >
Cancel

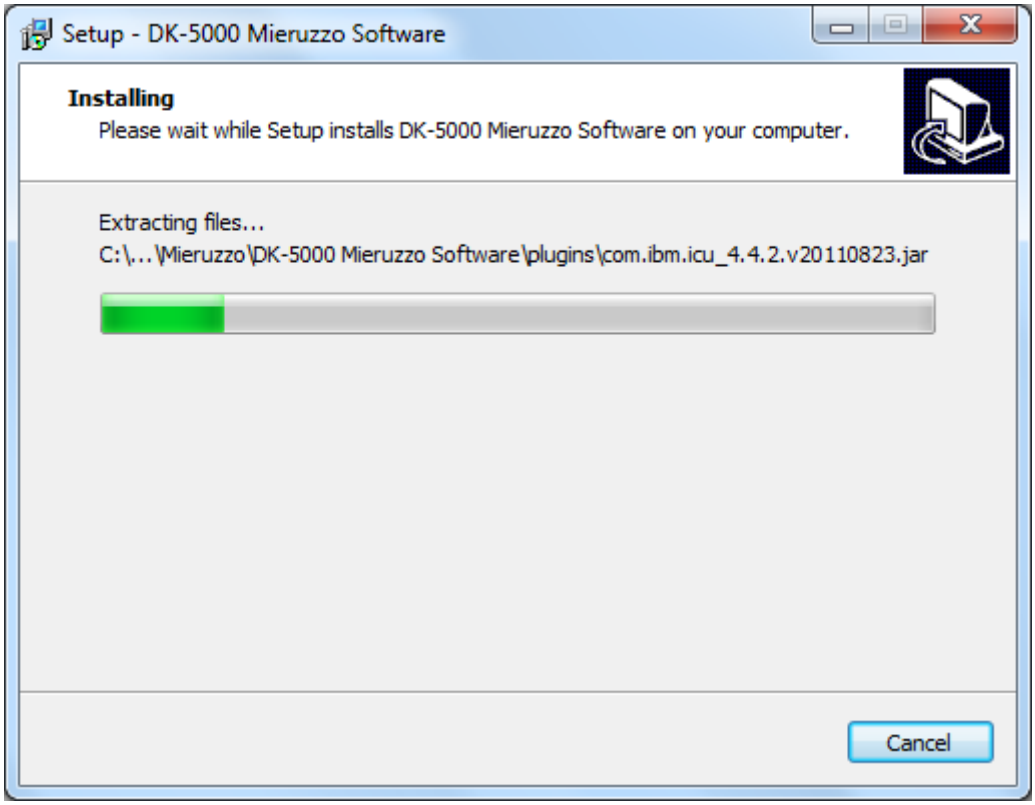
1.1.6 Select whether to create or not to create a desktop icon for the software via the checkbox. Click Next to continue with the software installation.


Setup - DK-5000 Mieruzzo Software
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing DK-5000 Mieruzzo Software, then click Next.
Additional icons:
Create a desktop icon
< Back
Next >
Cancel

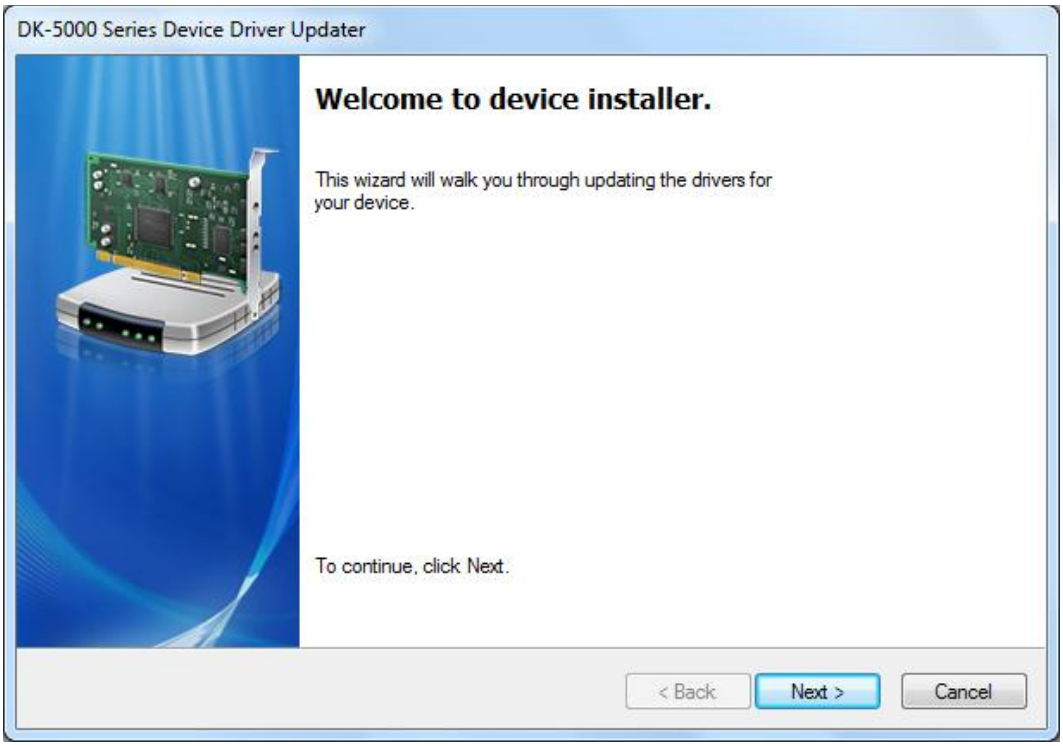
1.1.7 Click Install to continue with the software installation.


Setup - DK-5000 Series DataLink Software
Ready to Install
Setup is now ready to begin installing DK-5000 Series DataLink Software on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files (x86)\DK-5000 Series DataLink Software
Start Menu folder:
DK-5000 Series DataLink Software
Additional tasks:
Additional icons:
Create a desktop icon
< Back
Install
Cancel

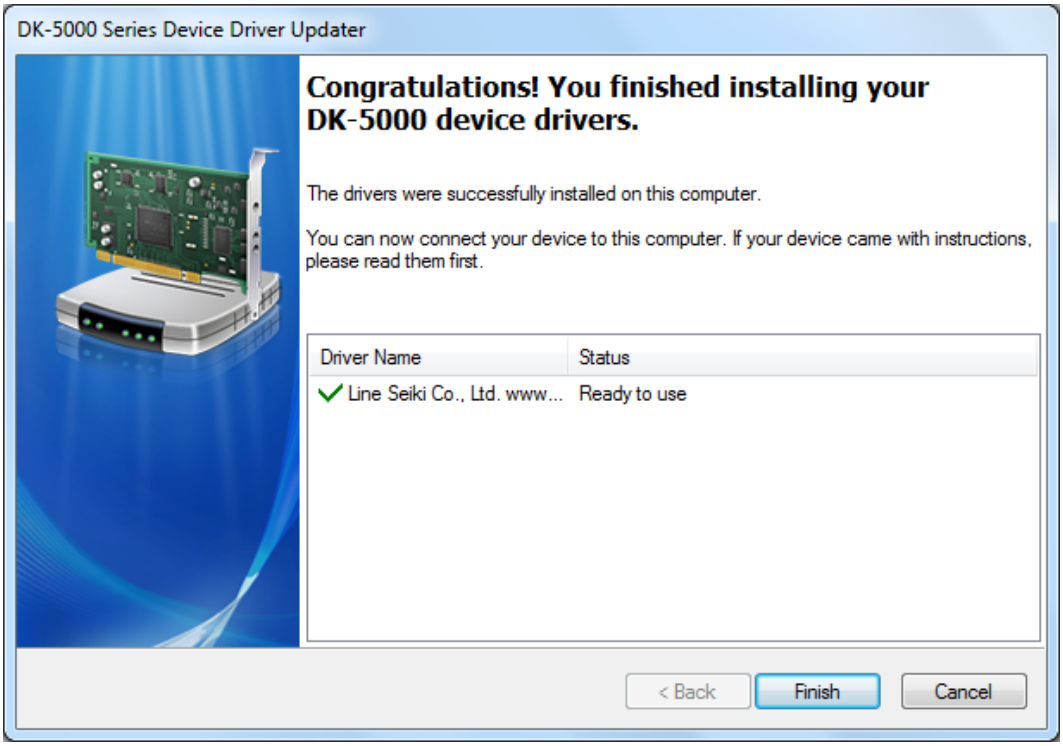
A progress bar will show the installation progress.



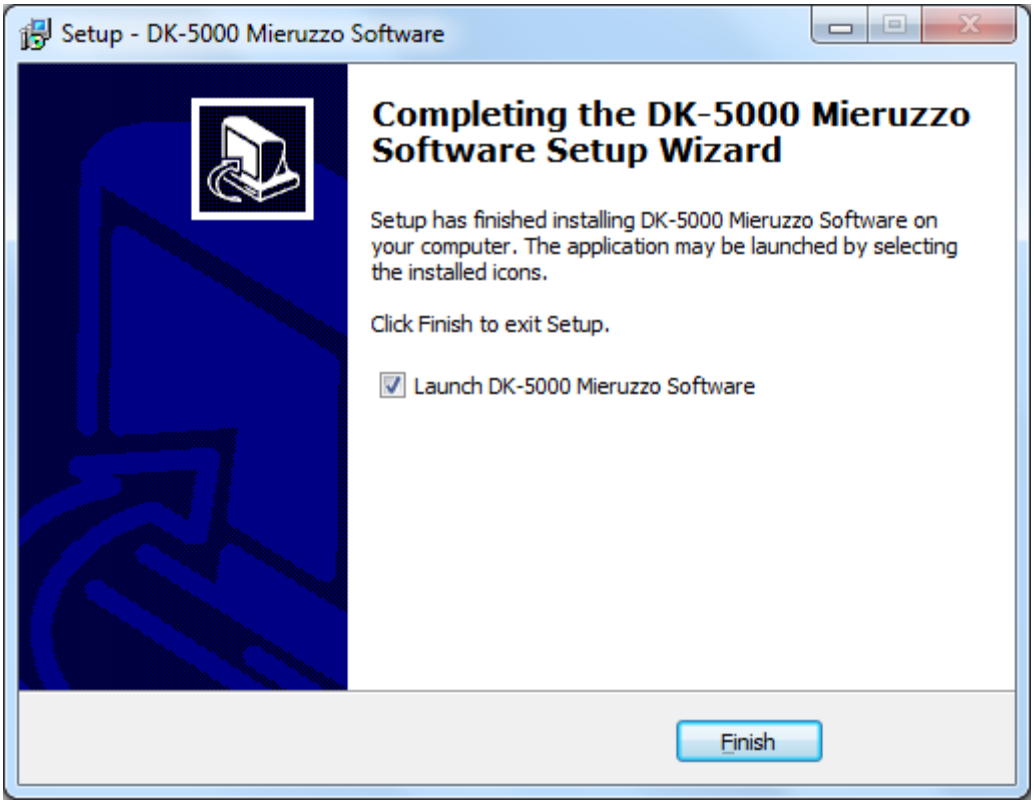
1.1.8 DK-5000 Series Device Driver Updater will open for the installation of necessary device driver. Click Next to continue.


DK-5000 Series Device Driver Updater
Welcome to device installer.
This wizard will walk you through updating the drivers for your device.
To continue, click Next.
< Back
Next >
Cancel

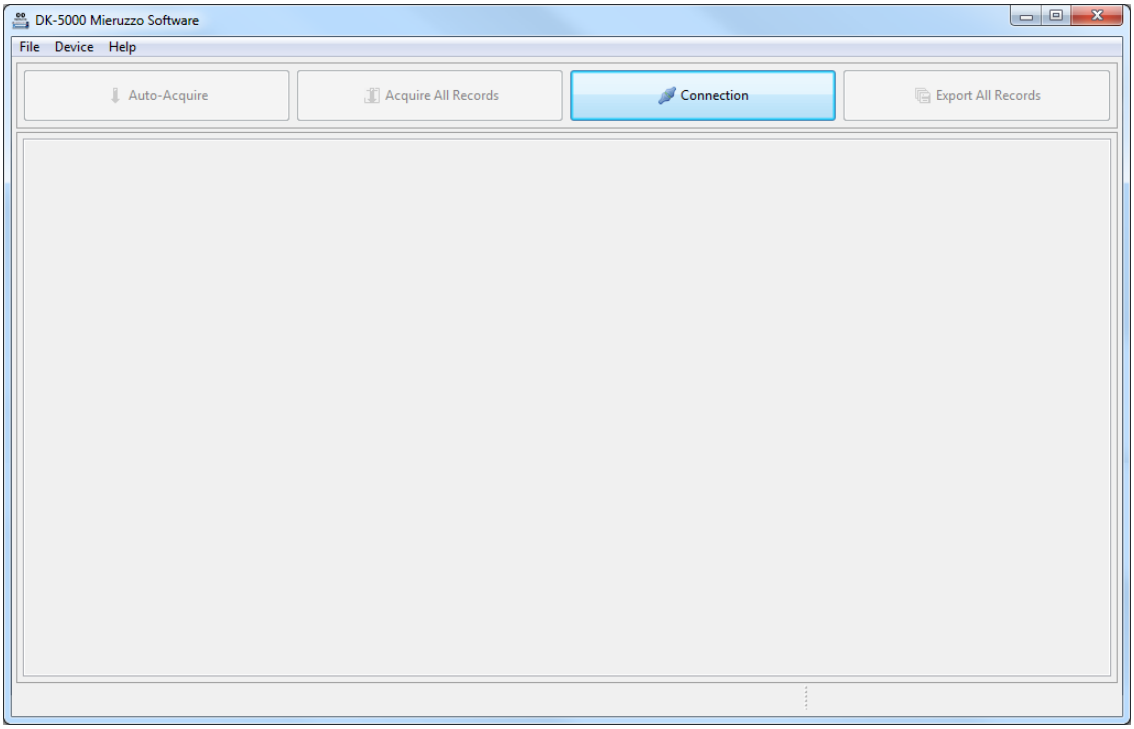
1.1.9 The following window will appear upon successful installation of the DK-5000 Series Device Driver. Click Finish to continue.


DK-5000 Series Device Driver Updater
Congratulations! You finished installing your DK-5000 device drivers.
The drivers were successfully installed on this computer.
You can now connect your device to this computer. If your device came with instructions, please read them first.
Driver Name
Status
Line Seiki Co., Ltd. www...
Ready to use
< Back
Finish
Cancel

1.1.10 Click Finish to complete the software installation. If Launch DK-5000 Mieruzzo Software is checked, the software will automatically launch.


Setup - DK-5000 Mieruzzo Software
Completing the DK-5000 Mieruzzo Software Setup Wizard
Setup has finished installing DK-5000 Mieruzzo Software on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Launch DK-5000 Mieruzzo Software
Finish

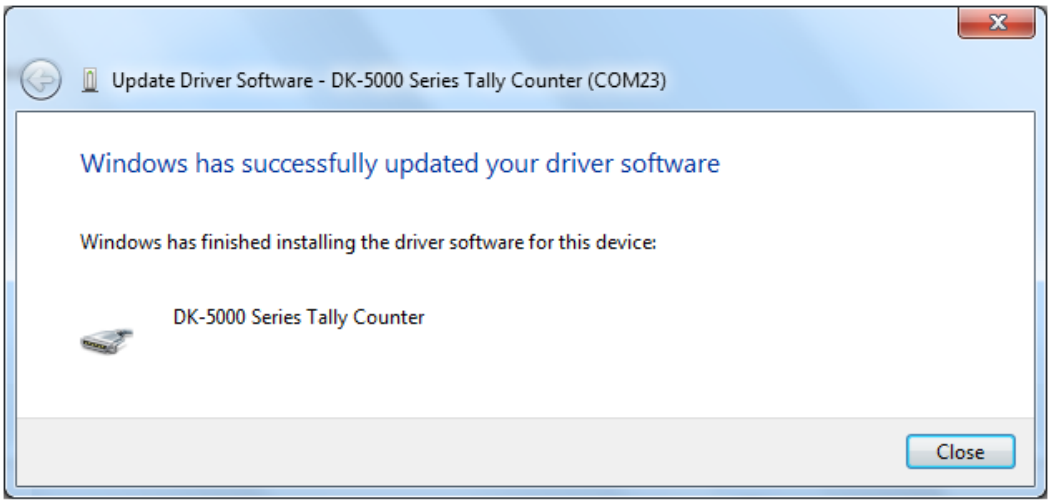
1.1.11 See below image for the default view of the **DK-5000 Mieruzzo Software**.



1.2 DK-5000 DEVICE DRIVER

1.2.1 The correct DK-5000 Device Driver is installed together with the DK-5000 Mieruzzo Software.

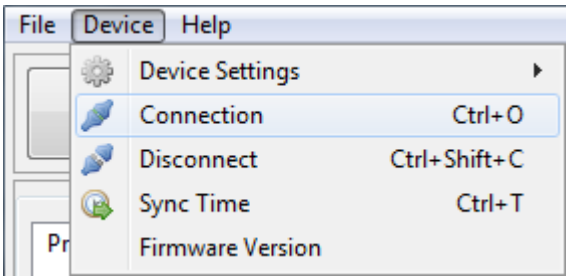
In case there is a need to re-install the device driver, it can be found by selecting the correct driver located in the installation directory of the software. The following message will be shown upon successful installation or update of the device driver.


Update Driver Software - DK-5000 Series Tally Counter (COM23)
Windows has successfully updated your driver software
Windows has finished installing the driver software for this device:
DK-5000 Series Tally Counter
Close

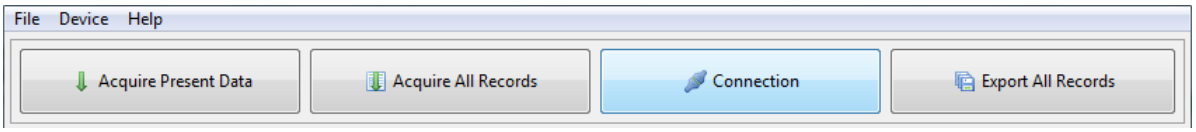
2 CONNECTING AND DISCONNECTING A DK-5000 DEVICE

2.1 CONNECT A DK-5000 DEVICE

2.1.1 When a DK-5000 device is physically connected to the computer via a USB cable, click **Device** in the menu bar, then select **Connection** (Device > Connection)



or click **Connection** button.

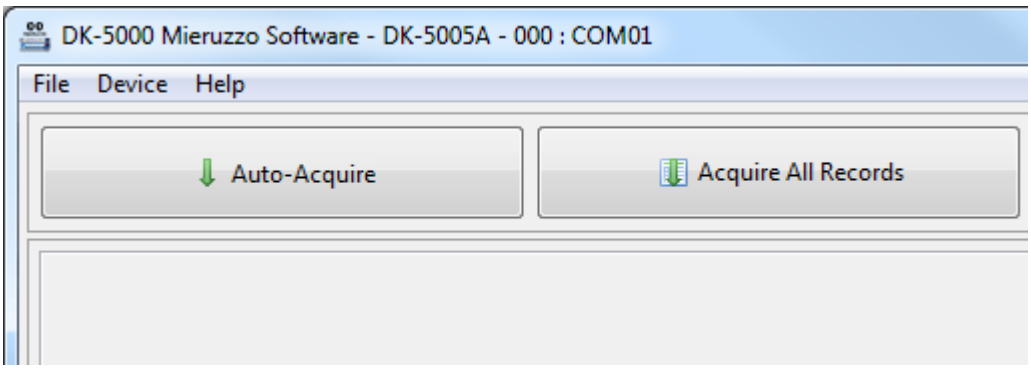


2.1.2 The drop-down button will list all DK-5000 devices available with their corresponding Device ID and COM Port Connection. If there are multiple items in the list, select the device you want to connect.

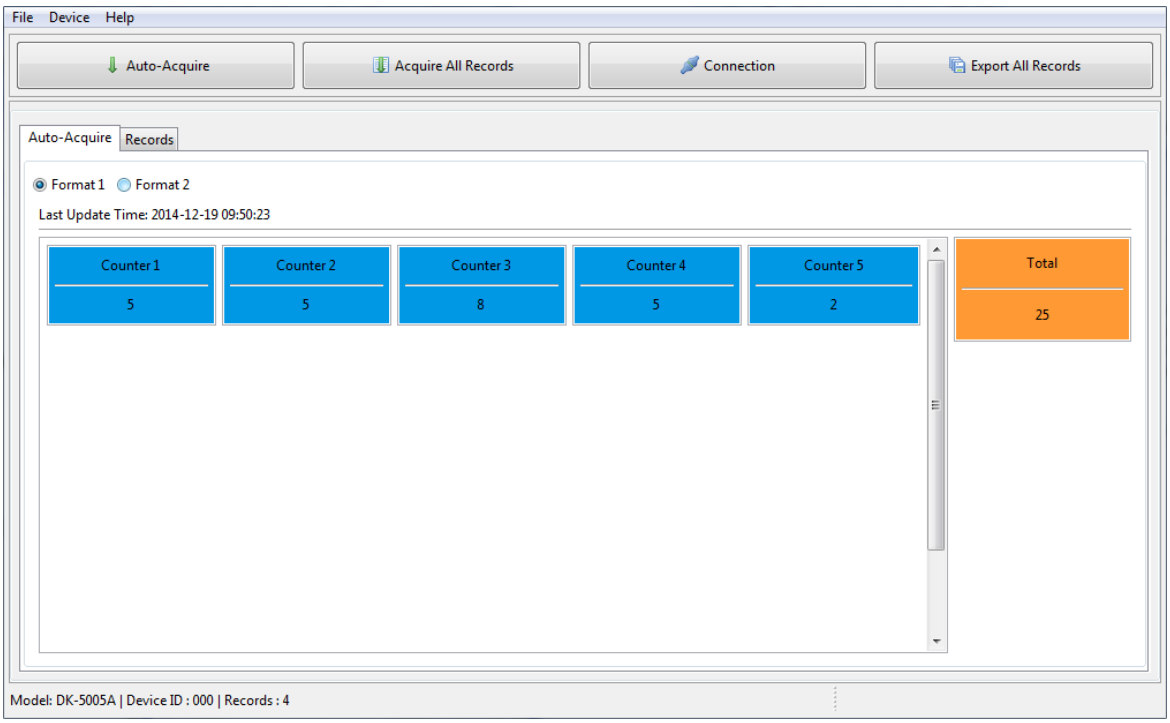
2.1.3 Click OK to connect to the selected DK-5000 device.

When the software successfully connects to the selected device, the Title Bar will display the Device ID and COM Port Connection as shown below.

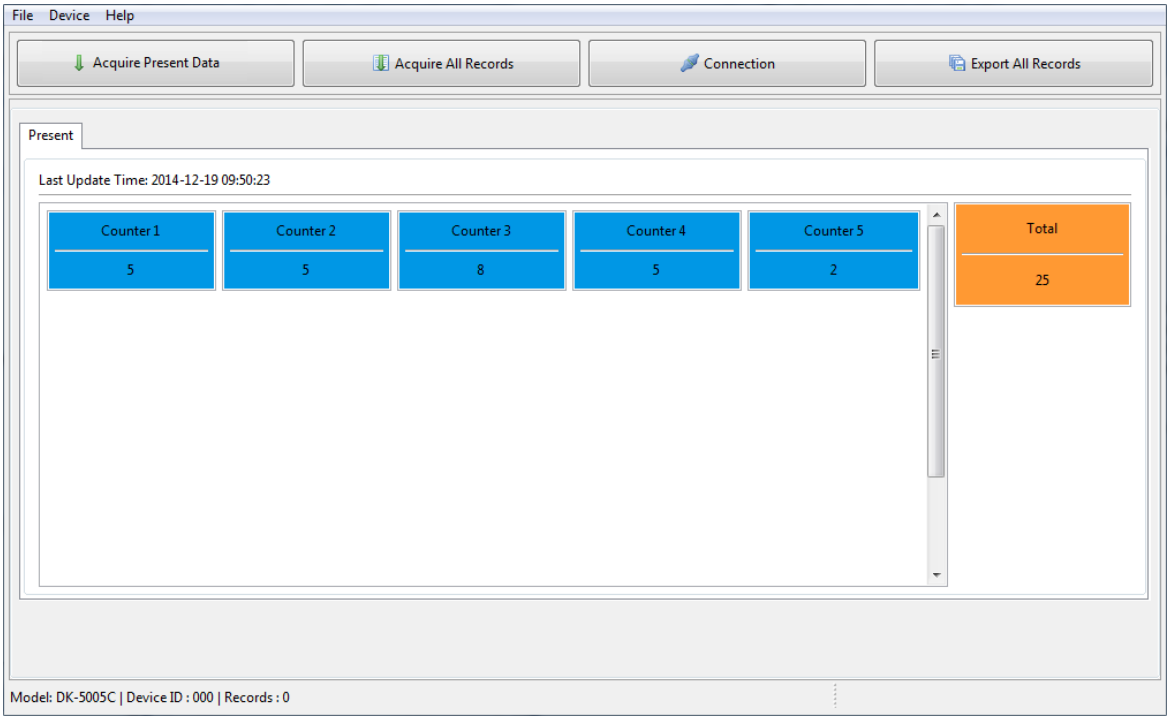
The device details will also be shown in the lower left corner which will show the device model, Device ID, and the number of Records available in the device memory.



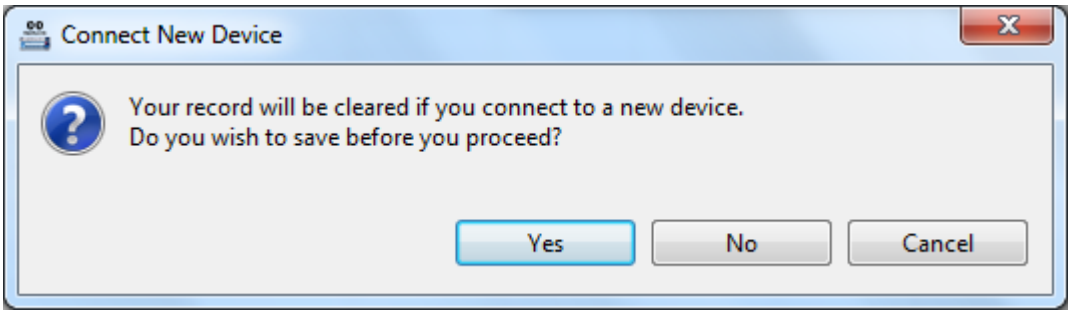
Successful connection to a Type A or Type B device will show the Auto-Acquire page.



Successful connection to a Type C device will show the Acquire Present page.



2.1.4 If attempting to connect a new device while there are Records from a different device on display, a dialog will appear to confirm if Records will be saved before connecting to the new device.

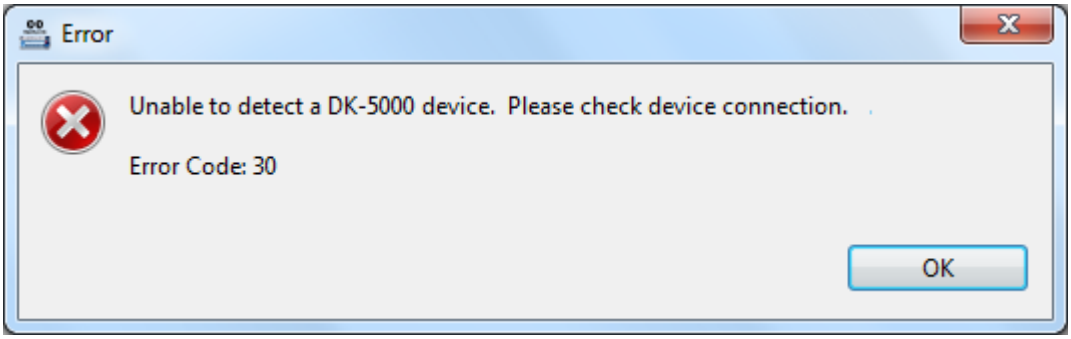

Connect New Device
Your record will be cleared if you connect to a new device.
Do you wish to save before you proceed?
Yes
No
Cancel

Select Yes to save the displayed Records.

Select No to discard the Records on display and continue connecting to the new device.

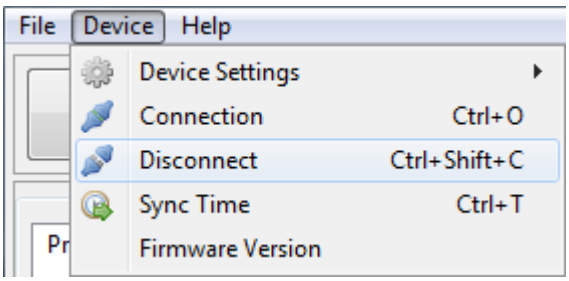
Select Cancel to abort connection to the new device.

2.1.5 In cases where no DK-5000 device is detected, an error message will be shown.

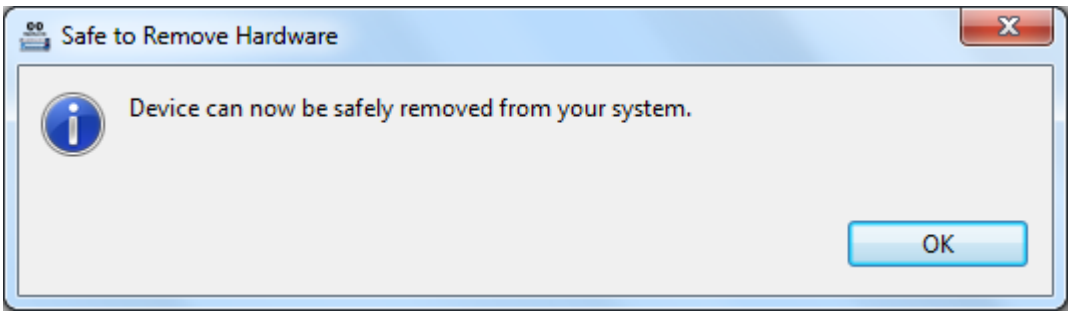


2.2 DISCONNECT A DK-5000 DEVICE

2.2.1 Click **Device** in the menu bar, and then select **Disconnect** (Device > Disconnect).



A message will appear to confirm disconnection. The DK-5000 can now be physically disconnected from the computer.



Warning!

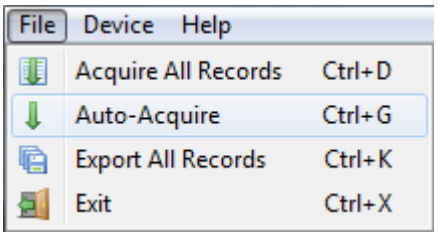
Do not physically disconnect the DK-5000 device from the computer without a Disconnect command and confirmation that the device can be safely removed. This will introduce a huge risk of the software not being able to detect re-connection of the DK-5000 device or new connections of new DK-5000 devices.

3 DATA COMMUNICATION WITH DK-5000 DEVICE

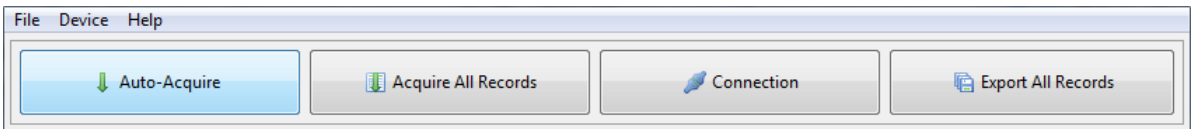
3.1 AUTO-ACQUIRE PRESENT DATA

This function is available in Type A and Type B DK-5000 devices only. Software will show the present data displayed on the DK-5000 device, and will automatically refresh every 1 second.

3.1.1 Click **File** in the menu bar, and then select **Auto-Acquire** (File > Auto-Acquire).



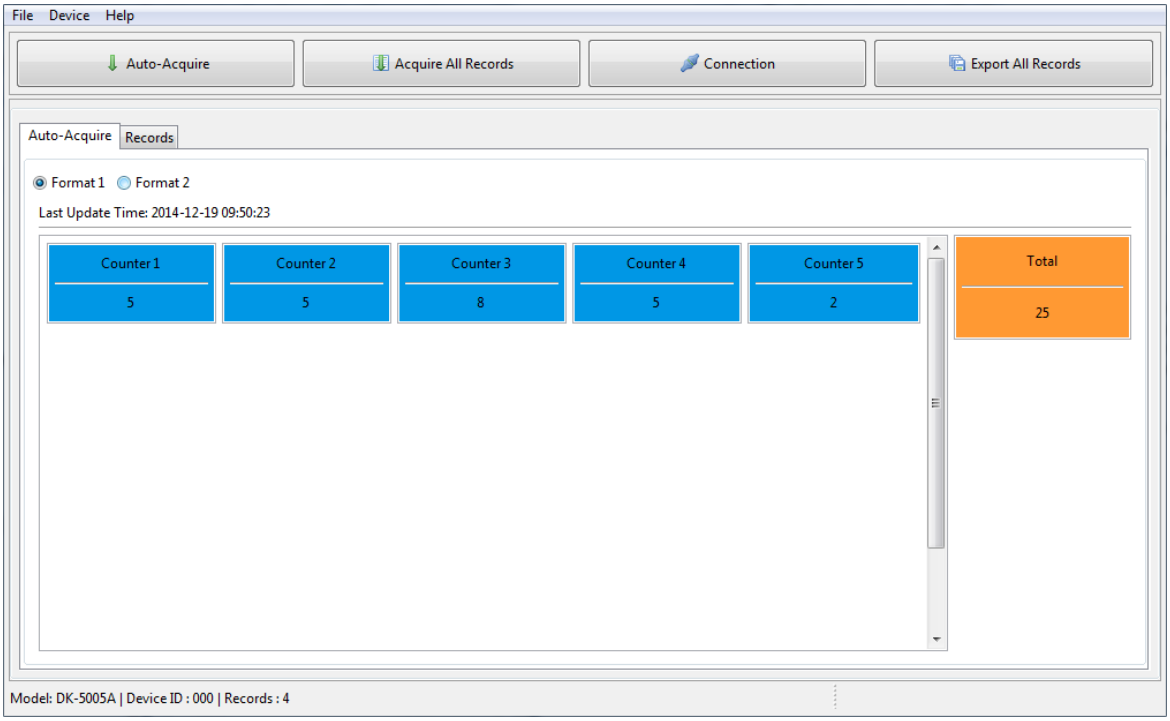
Or click **Auto-Acquire** button.



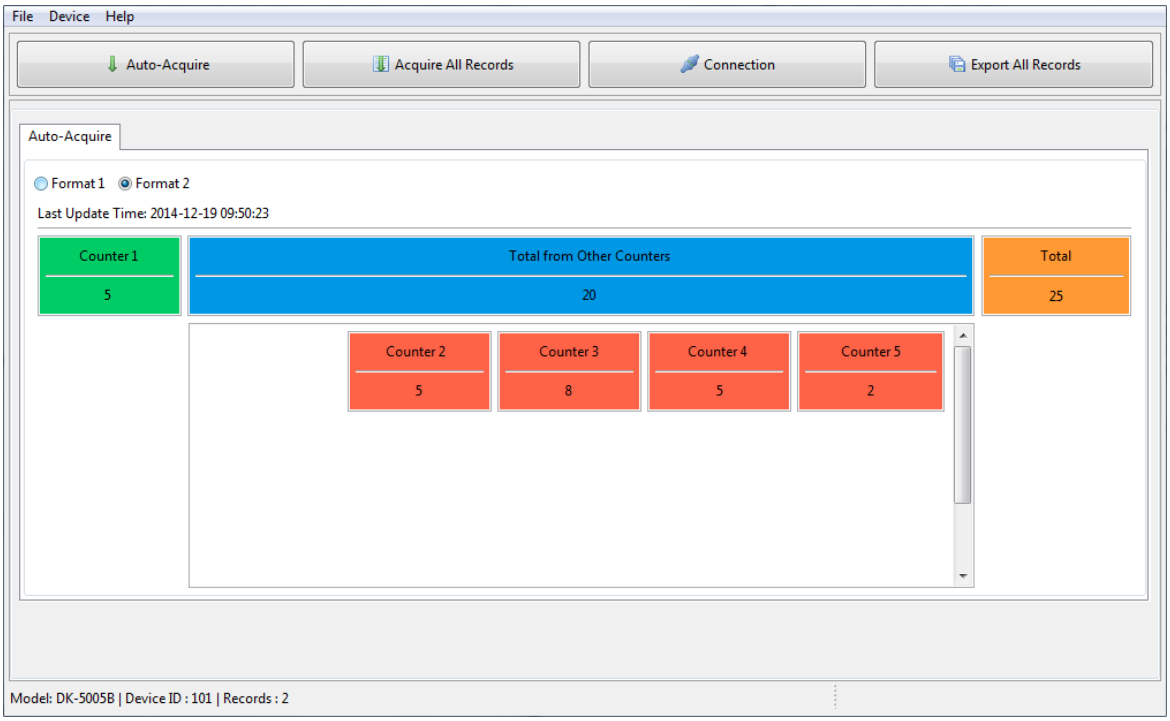
3.1.2 A successful Auto-Acquire command will show the present data displayed on the DK-5000 device, and the display will be automatically updated every 1 second. The Last Update Time of the display is also shown.

There are two display formats available. Click the corresponding radio button to select the preferred display format.

Format 1 shows the individual values of each Counters or Inputs on the left side, and the total of all Counters or Inputs on the right side.



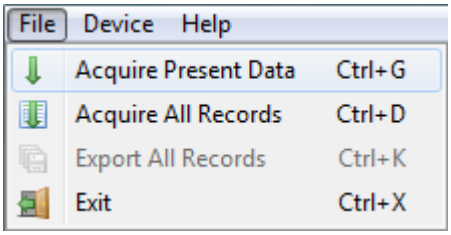
Format 2 shows the value of Counter 1 or Input 1 on the left side, total and individual values of other Counters or Inputs in the middle, and total of all Counter or Inputs on the right side.



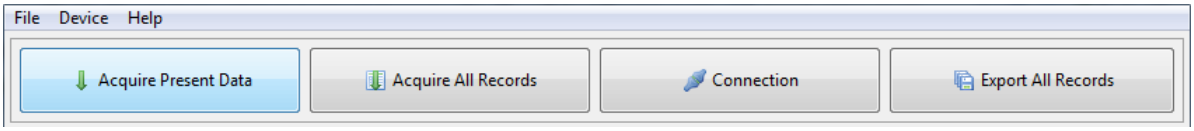
3.2 ACQUIRE PRESENT DATA

This function is available in Type C DK-5000 devices only. Software will show the present data displayed on the DK-5000 device.

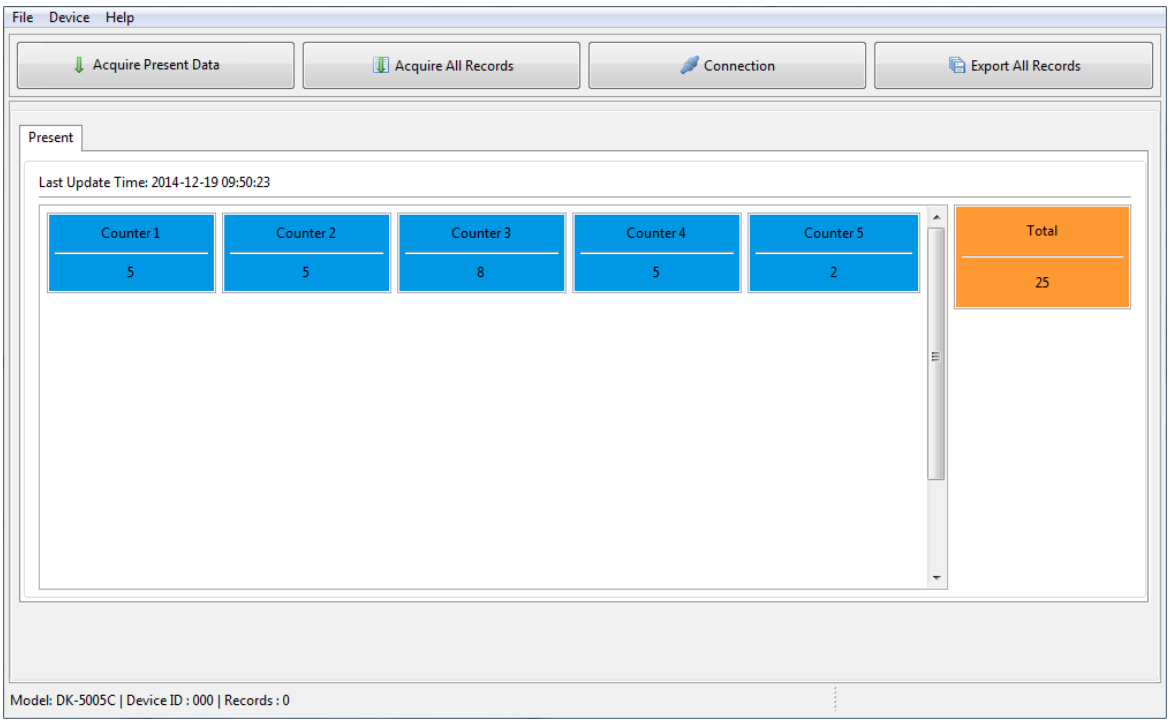
3.2.1 Click **File** in the menu bar, and then select **Acquire Present Data** (File > Acquire Present Data).



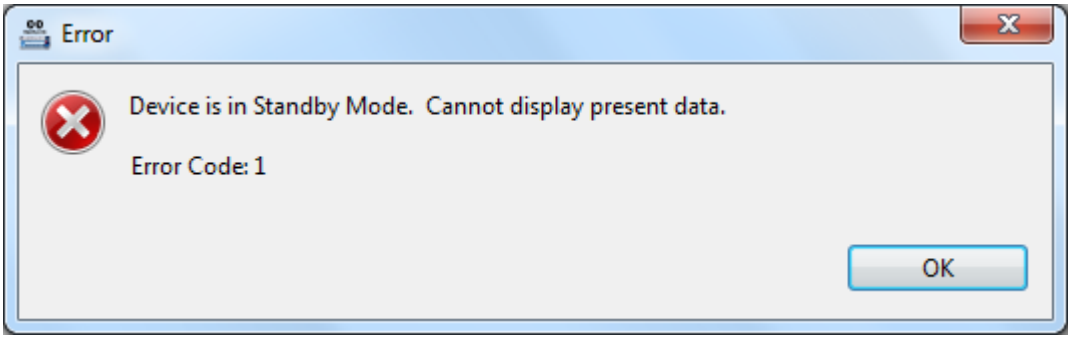
or click **Acquire Present Data** button.



3.2.2 A successful Acquire Present Data command will show the present data displayed on the DK-5000 device. Additionally, it will update the number of Records shown in the device details.



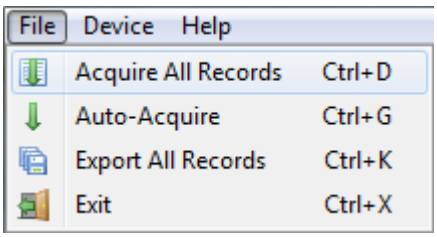
3.2.3 This function can be executed only when device is in Count Mode. If Acquire Present was attempted while device is in Standby Mode, an error message will be shown.



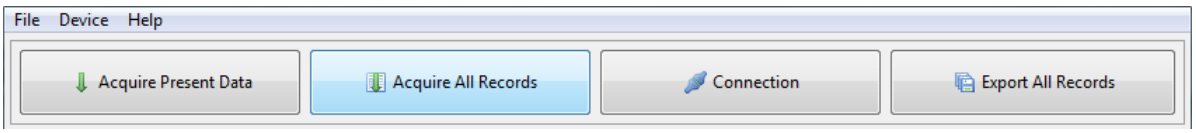
3.3 ACQUIRE ALL RECORDS

This function enables the software to show all the records saved in the memory of DK-5000 devices. All Record details can be viewed and there is also an option to export Records to a spreadsheet or delete a specific Record.

3.3.1 Click **File** in the menu bar, and then select **Acquire All Records** (File > Acquire All Records).

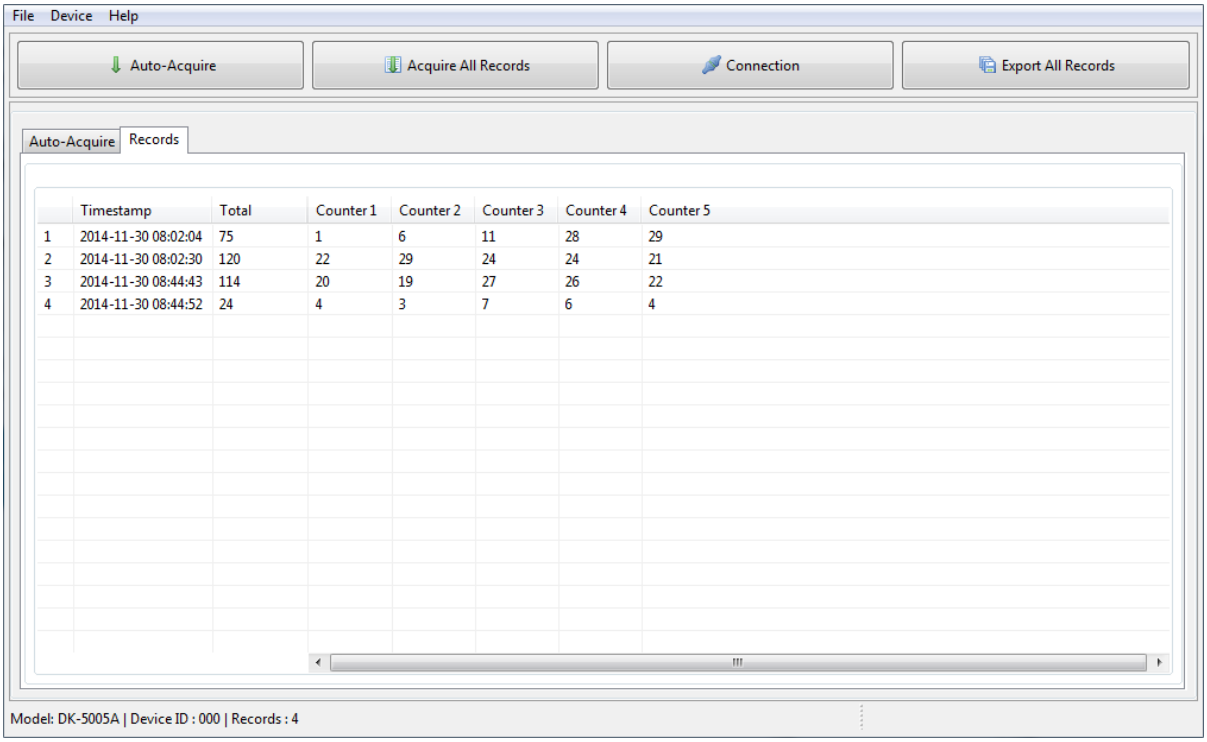


Or click **Acquire All Records** button.

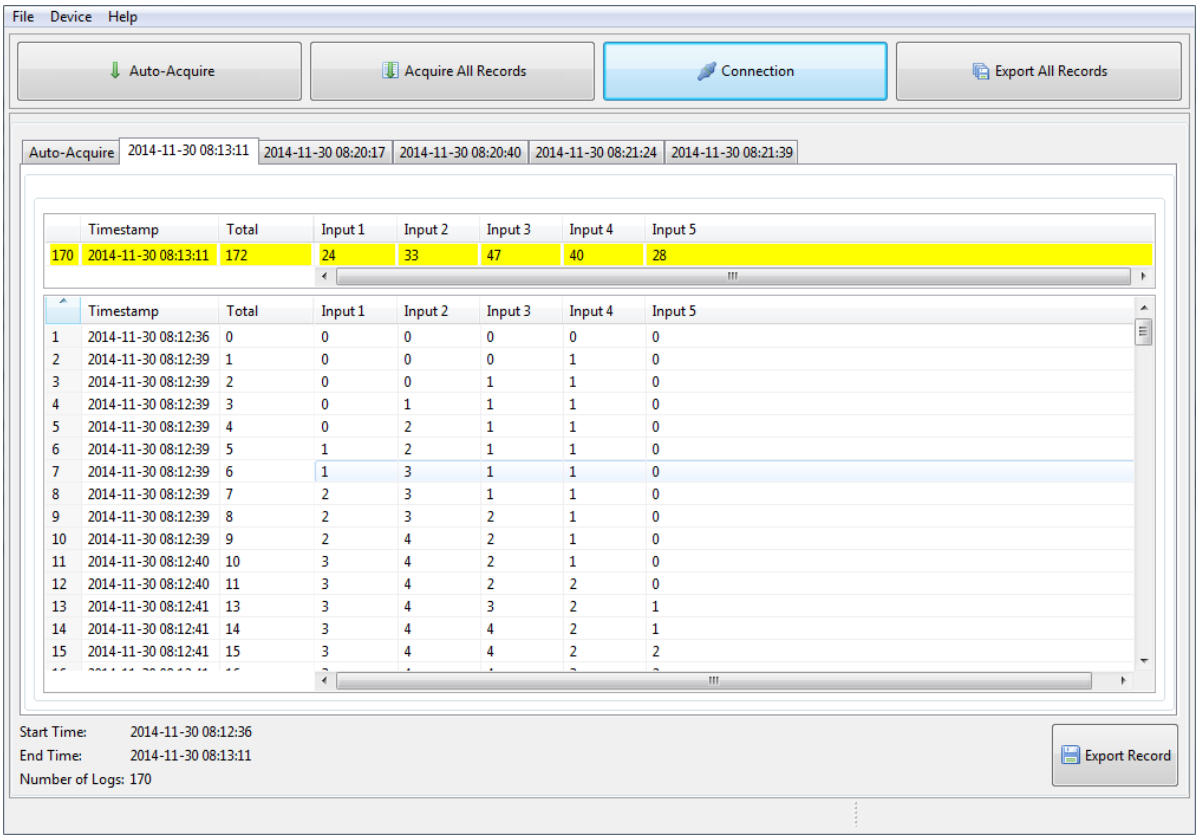


3.3.2 A successful Acquire All Records command will show all the records saved in the memory of the DK-5000 device. Additionally, it will update the number of Records shown in the displayed device details.

For a Type A device, all Records are listed in a single table.


File Device Help
Auto-Acquire
Acquire All Records
Connection
Export All Records
Auto-Acquire
Records
Timestamp Total Counter 1 Counter 2 Counter 3 Counter 4 Counter 5
1 2014-11-30 08:02:04 75 1 6 11 28 29
2 2014-11-30 08:02:30 120 22 29 24 24 21
3 2014-11-30 08:44:43 114 20 19 27 26 22
4 2014-11-30 08:44:52 24 4 3 7 6 4
Model: DK-5005A | Device ID : 000 | Records : 4

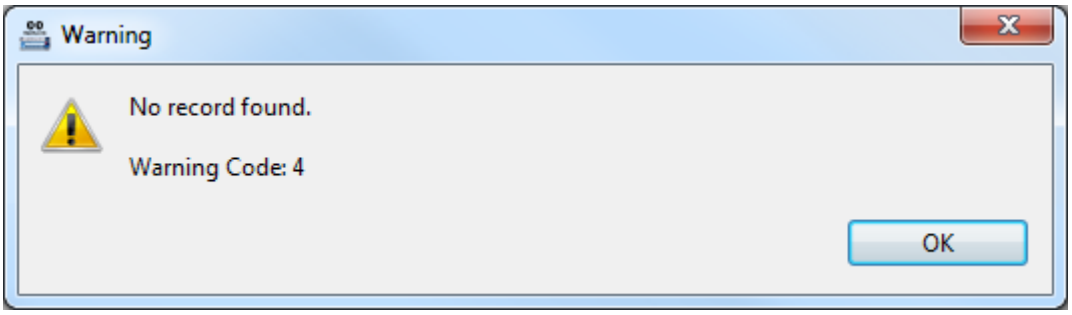
For Type B and Type C devices, each Record is shown as a separate table. Each table shows a list of all the logs inside that Record.



3.3.3 The software will display messages for three (3) conditions that indicate the status of available memory on the device.

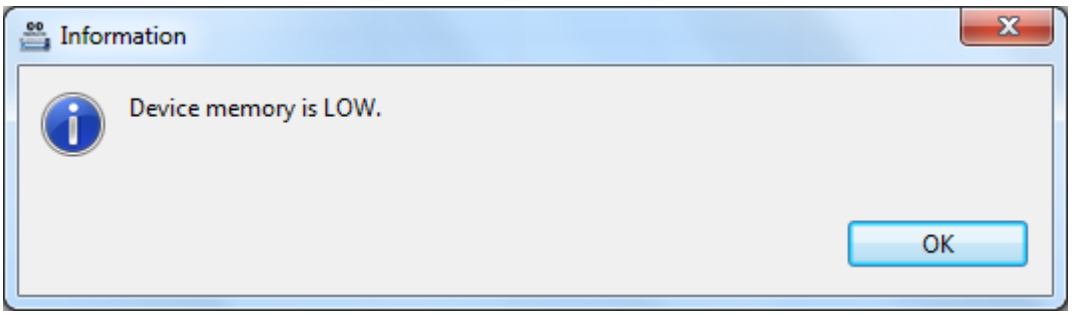
3.3.4.1 No Records In Memory

A warning message will be displayed to indicate that Acquire All Records is attempted but there are no Records saved in the device memory.



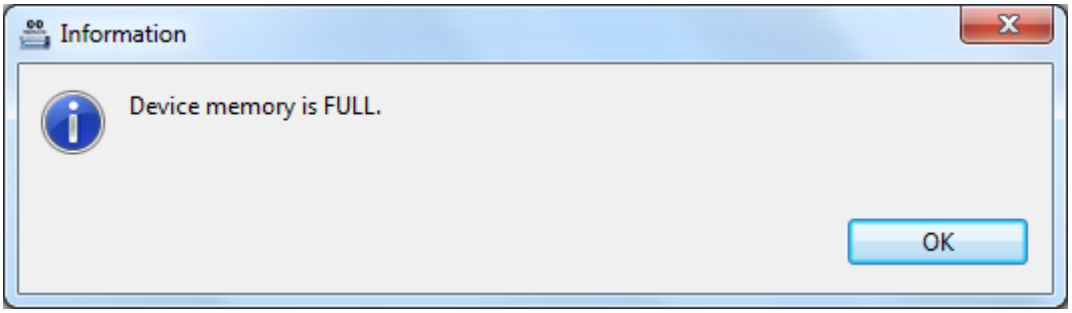
3.3.4.2 Device Memory Low

"Memory Low" message will be displayed if device memory usage is between 80% - 100%.

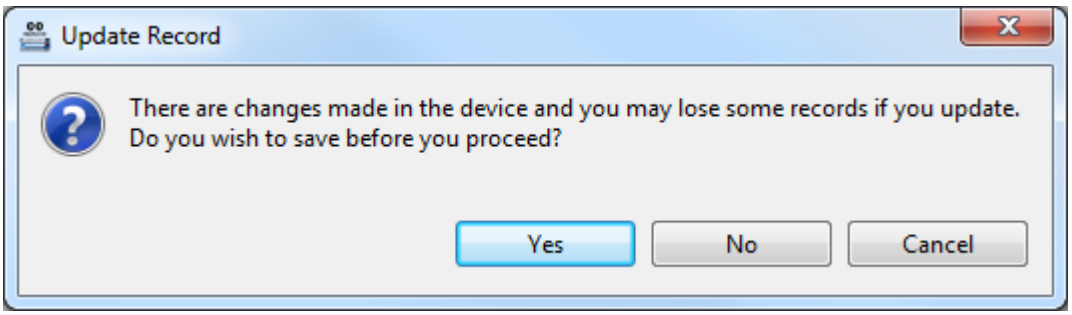


3.3.4.3 Device Memory Full

"Memory Full" message will be displayed if 100% of device memory is used. This serves as a warning to backup data by exporting to an .XLS or .CSV file, and free up device memory by deleting old Records. When memory is full, the device will automatically delete the oldest Record to free up memory when additional memory for new Records is needed.



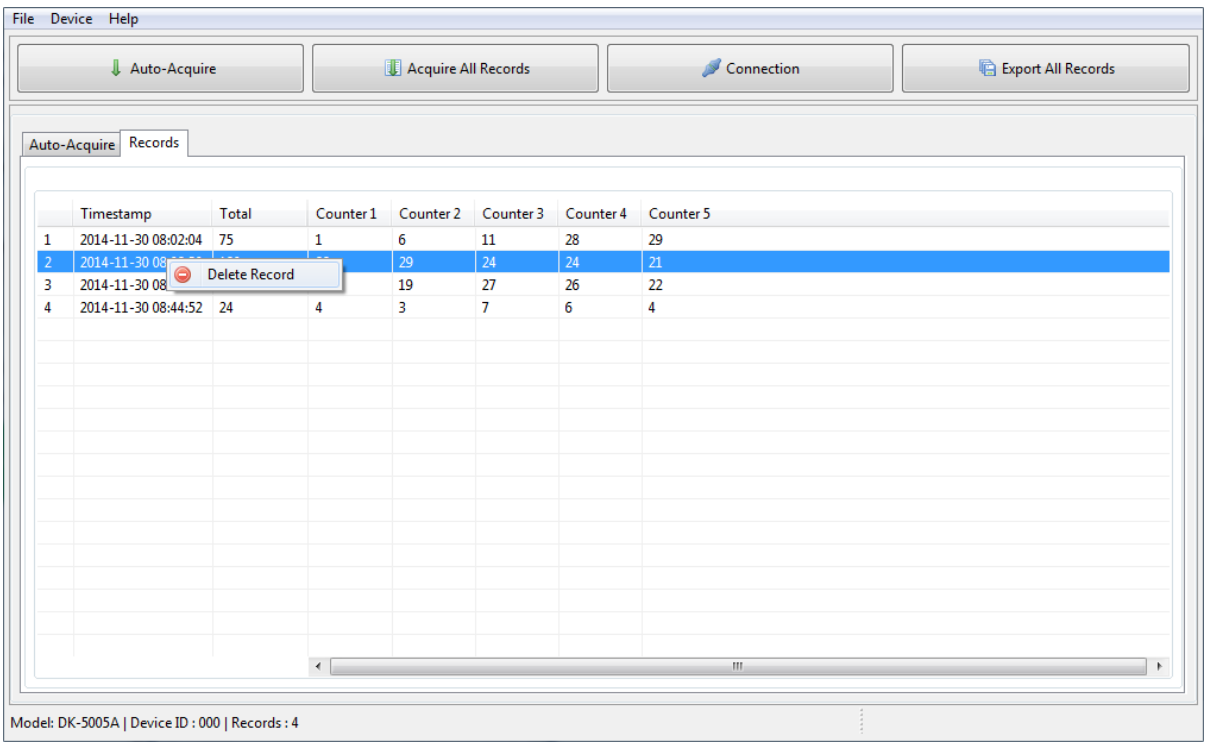
3.3.4 If Acquire All Records is pressed while the Records in the device are already on display because of a prior Acquire All Records command, the software will check if there are new Records or if there are changes in the device. If the Records in the device do not match the Records on display, a dialog will appear to confirm if Records will be saved before acquiring Records.


Update Record
There are changes made in the device and you may lose some records if you update.
Do you wish to save before you proceed?
Yes
No
Cancel

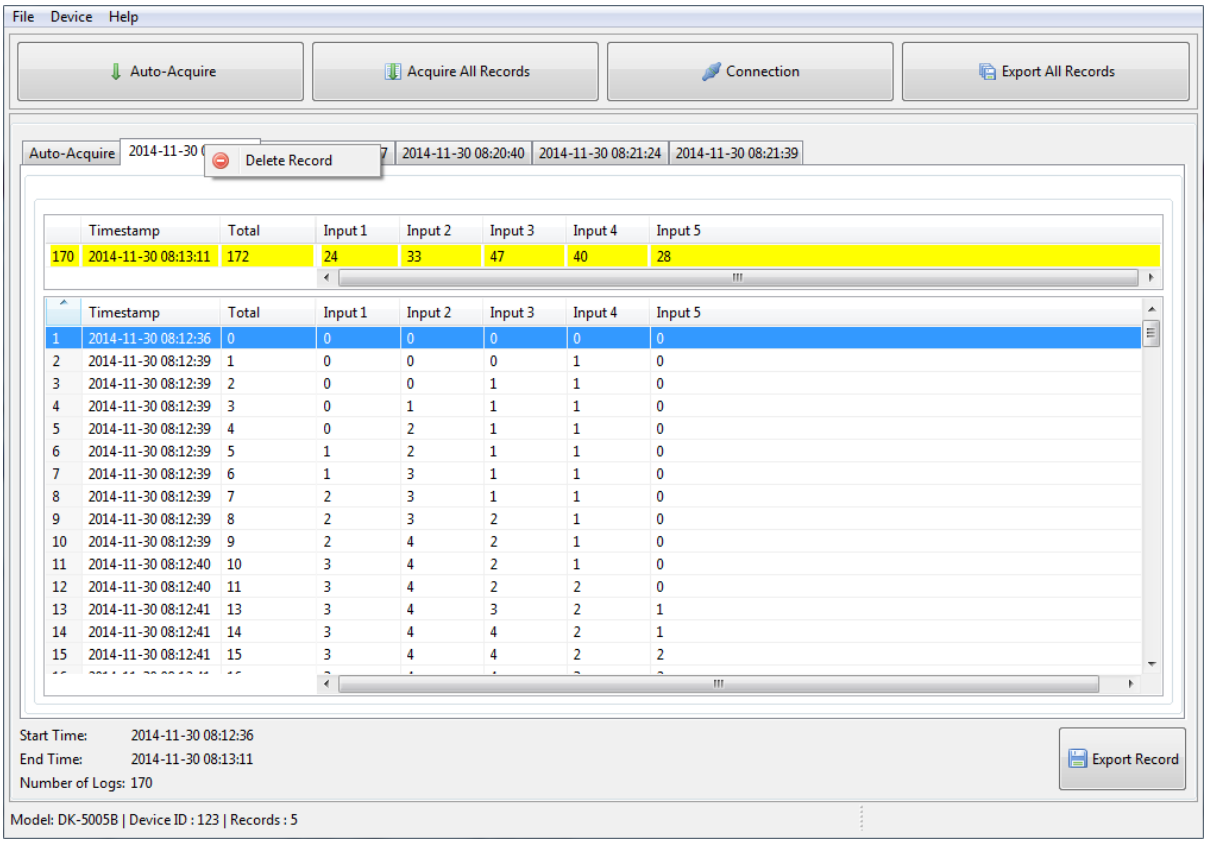
Select Yes to save the displayed Records. Follow the export procedure.
Select No to discard the Records on display and continue acquiring new Records.
Select Cancel to abort acquiring all Records.

3.4 DELETE A SPECIFIC RECORD IN DK-5000 DEVICE

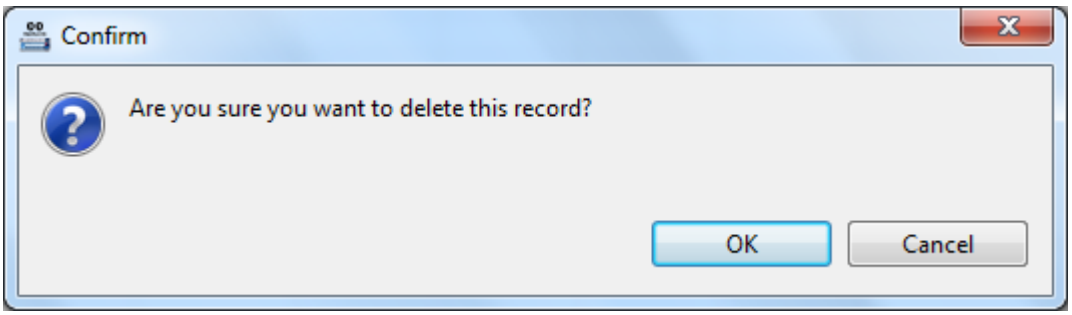
3.4.1 To delete a specific record in a Type A device, right-click on the Record to be deleted, and then select **Delete Record**.


File Device Help
Auto-Acquire
Acquire All Records
Connection
Export All Records
Auto-Acquire
Records
Timestamp Total Counter 1 Counter 2 Counter 3 Counter 4 Counter 5
1 2014-11-30 08:02:04 75 1 6 11 28 29
2 2014-11-30 08 29 24 24 21
3 2014-11-30 08 19 27 26 22
4 2014-11-30 08:44:52 24 4 3 7 6 4
Delete Record
Model: DK-5005A | Device ID : 000 | Records : 4

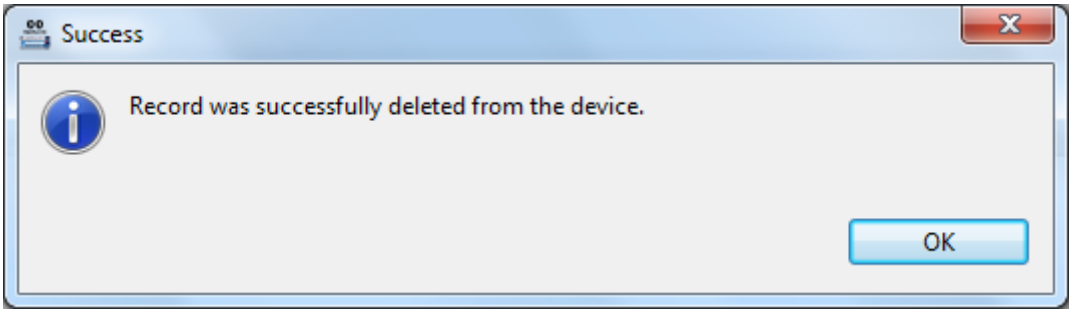
To delete a Record in Type B or Type C devices, right-click on the Tab Title of the Record to be deleted, and then select **Delete Record**.



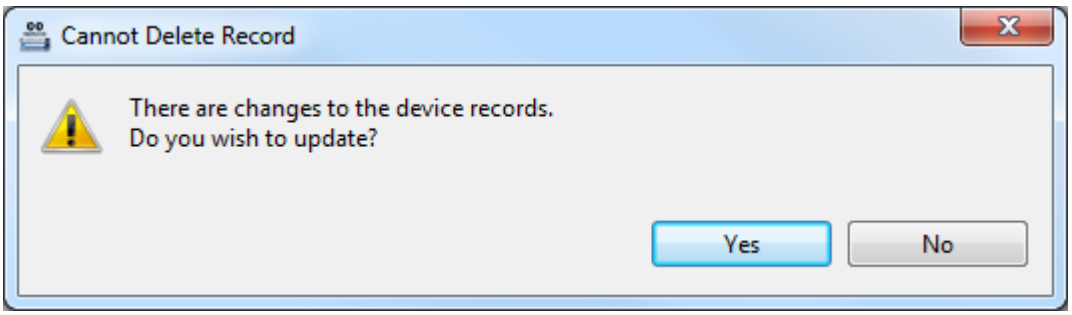
3.4.2 A dialog will appear to confirm the requested command.



3.4.3 Click OK to delete selected record. The following message will appear to confirm that the Record was successfully deleted.



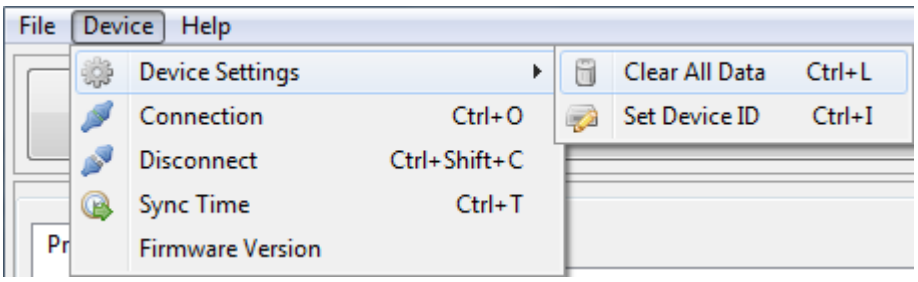
3.4.4 Delete Record will not proceed if the Records in the device do not match the Records on display. A dialog will appear to confirm if the display will be updated by an automatic Acquire All Records command.



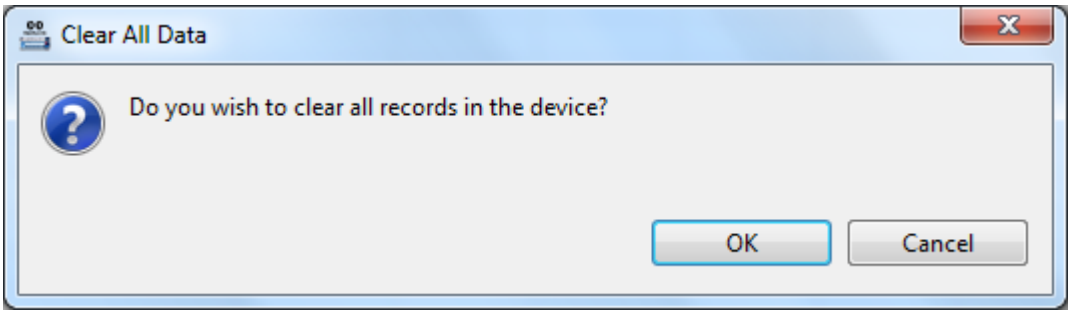
Select Yes to update display by acquiring all Records in the device memory.
Select No to abort Delete Record command.

3.5 CLEAR ALL DATA IN DK-5000 DEVICE

3.5.1 Click **Device** in the menu bar, select **Device Settings**, and then select **Clear All Data** (Device > Device Settings > Clear All Data).



3.5.2 A dialog will appear to confirm deletion of all records.



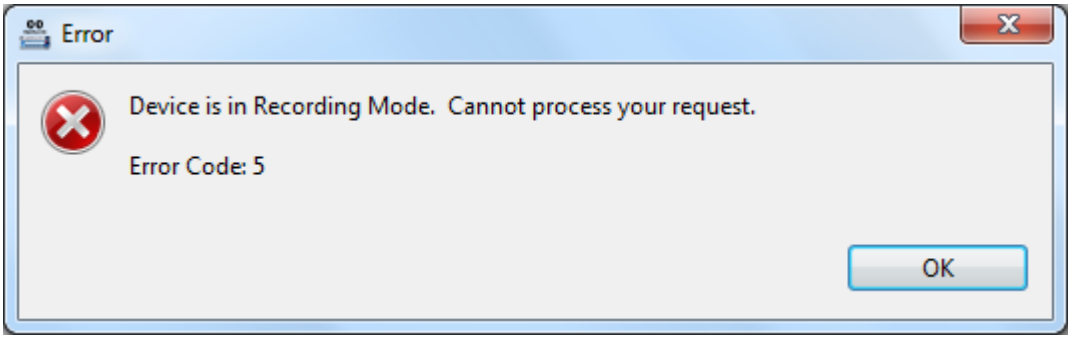
3.5.3 Click OK to clear all Records in the device.

All the Records in the device will be deleted and the records displayed in the software will also be cleared.

Note:

The DK-5000 device will proceed to Memory Recall Mode displaying "no data" to indicate that the memory is cleared of all data.

5.2.1 For Type B and Type C devices, the Clear All Data feature cannot be used when device is in Recording or Count Mode, respectively. If Clear All Data is attempted during Recording or Count Mode, an error message will be shown.

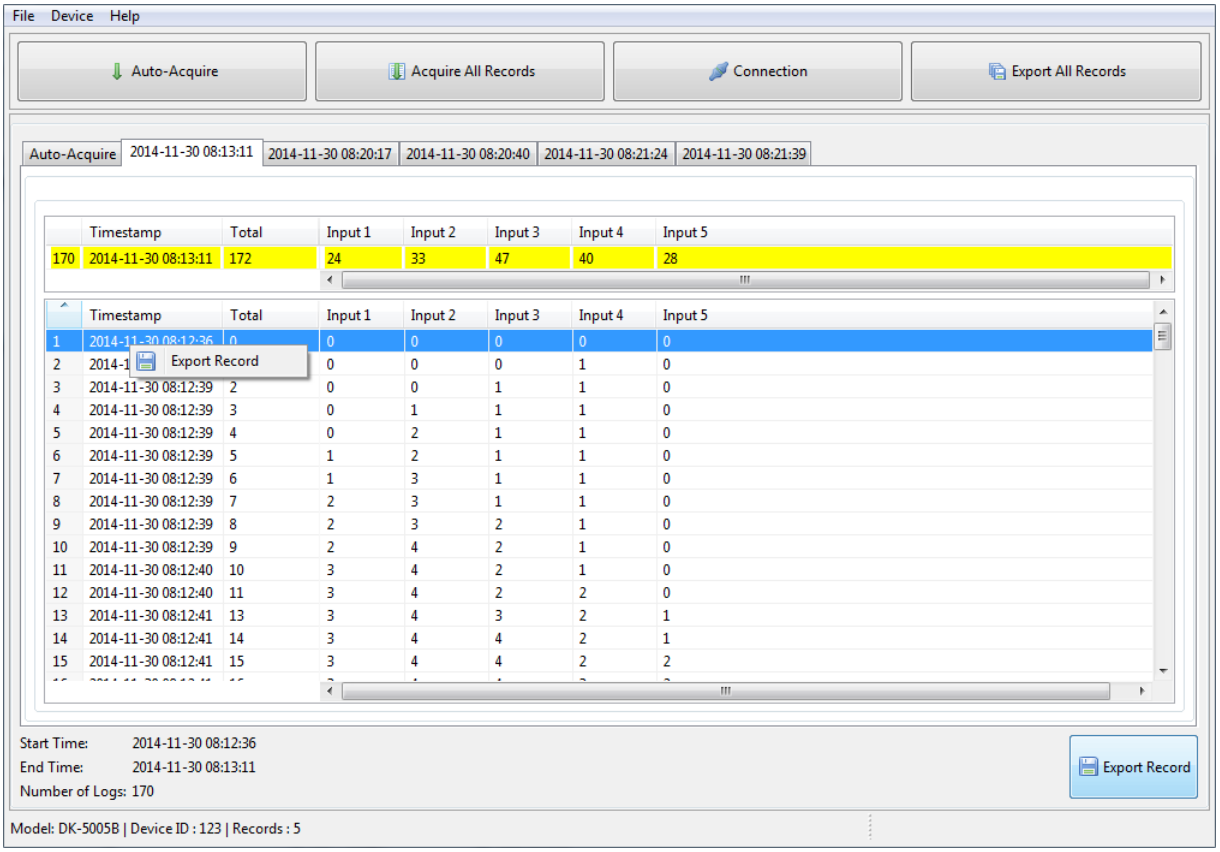


4 EXPORTING RECORDS TO A FILE

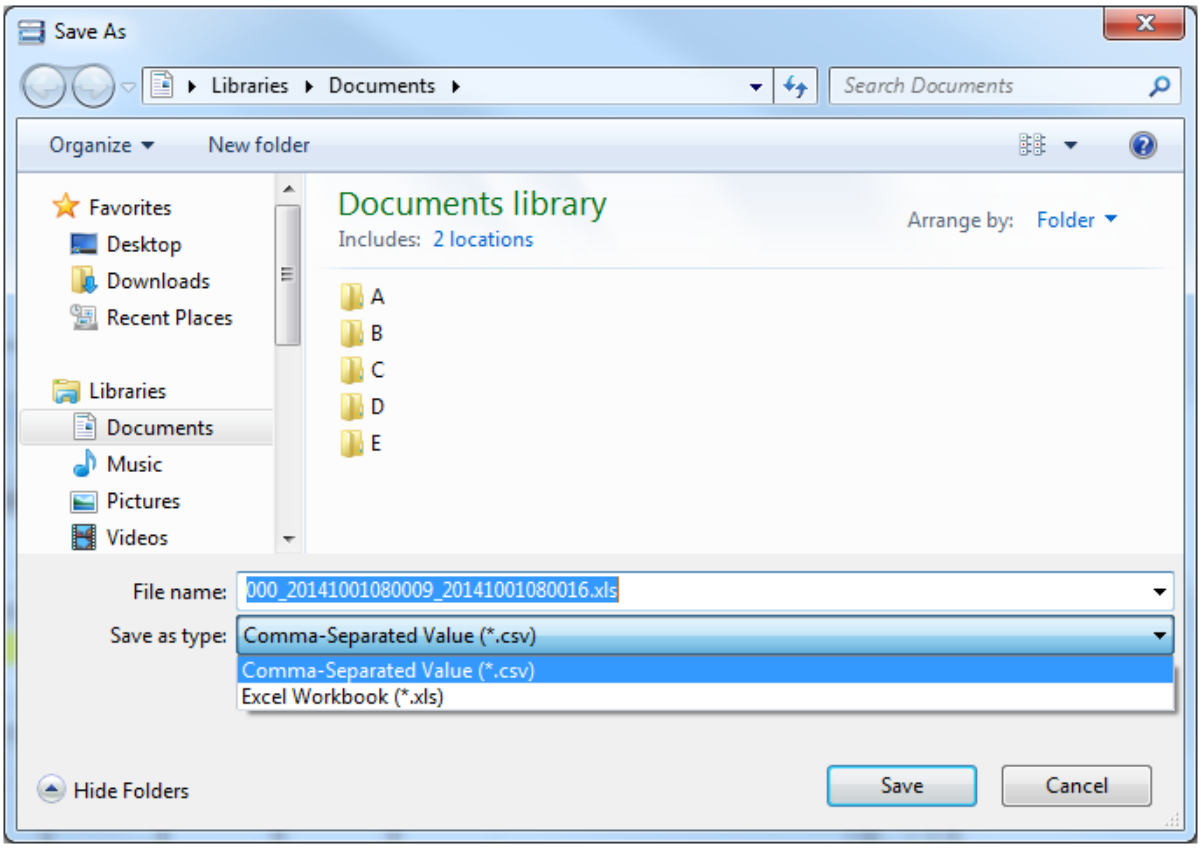
4.1 EXPORT A SPECIFIC RECORD

This function enables saving a copy of selected Record to a spreadsheet. This function is available in Type B and Type C DK-5000 devices only. For Type A devices, please use the Export All Records function.

4.1.1 To export a specific individual Record, right-click on the page to be exported, and then select **Export Record** or click the **Export Record** button, which is found on the lower-right corner of the page.



4.1.2 You can choose to save the record as an MS Excel Workbook (.XLS) or a comma separated value (.CSV) file.



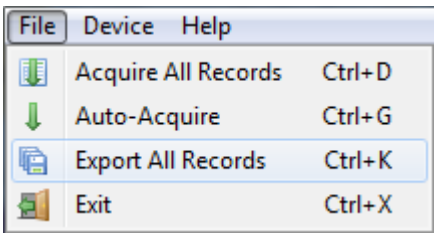
The default filename to be used follow the format below:

Device ID_start timestamp_end timestamp.xls

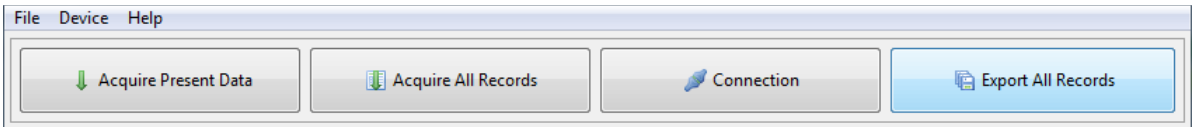
Device ID_start timestamp_end timestamp.csv

4.2 EXPORT ALL RECORDS

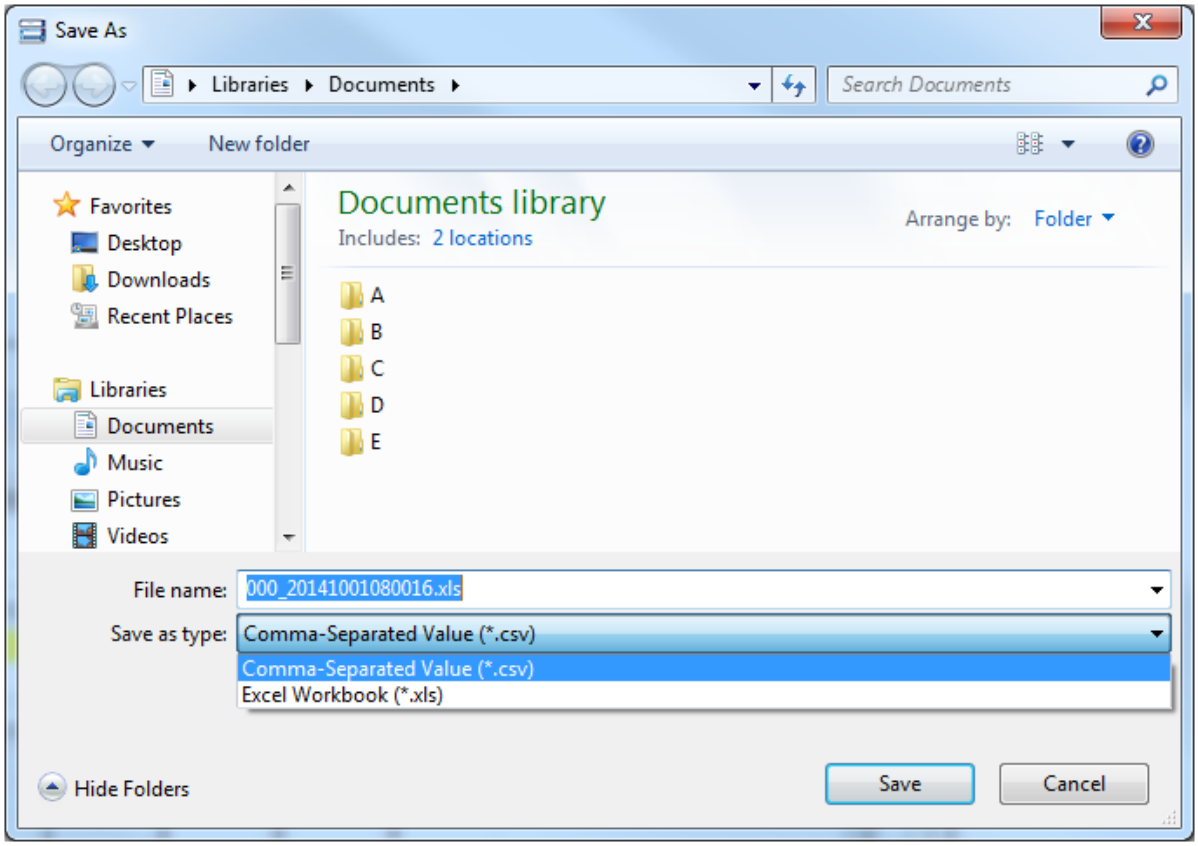
4.2.1 To export all records displayed, click **File** in the menu bar, and then select **Export All Records** (File > Export All Records).



Or click **Export All Records** button.



4.2.2 You can choose to save the Records as an MS Excel Workbook (.XLS) or a comma separated value (.CSV) file.



The default filename to be used follow the format below:

Device ID_date & time of export.xls

Device ID_date & time of export.csv

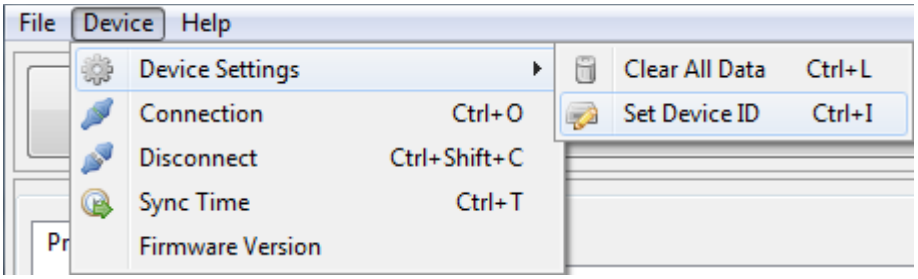
If exported to Excel, each Record will be on a different sheet in one Excel file, while, if exported in CSV, each Record will be stored as individual CSV files.

5 CHANGING DEVICE SETTINGS

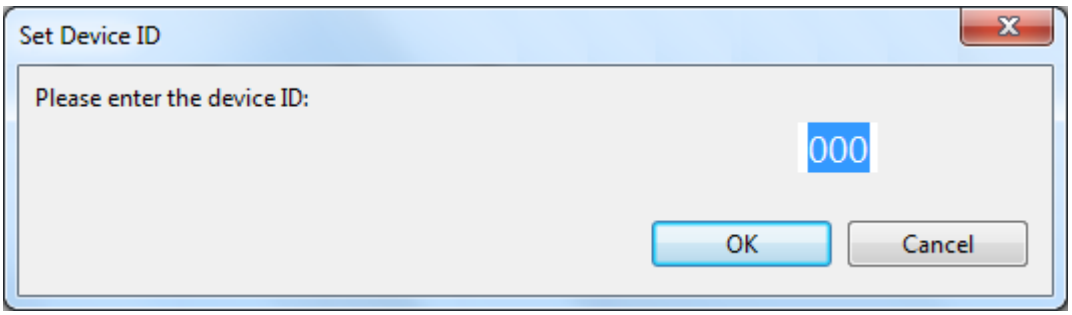
5.1 SET DEVICE ID

The software can be used to change the Device ID of the connected DK-5000 device. The Device ID is a 3-digit user-programmable number which is used to identify different DK-5000 devices.

5.1.1 Click **Device** in the menu bar, select **Device Settings**, and then select **Set Device ID** (Device > Device Settings > Set Device ID).

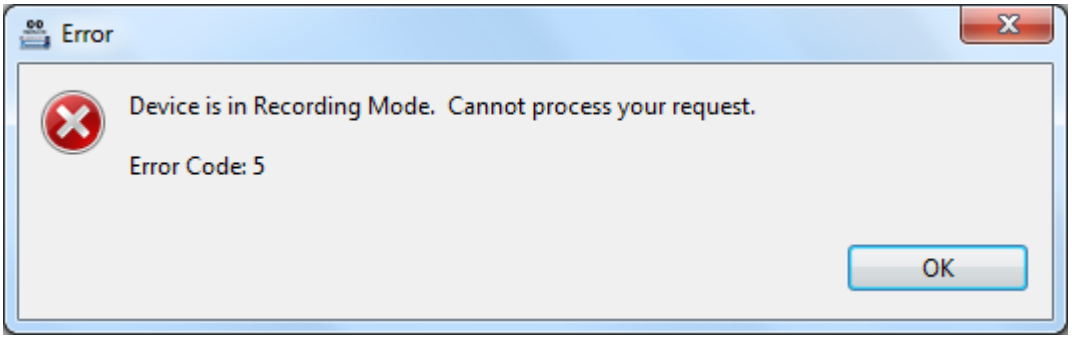


5.1.2 Type the desired 3-digit Device ID.



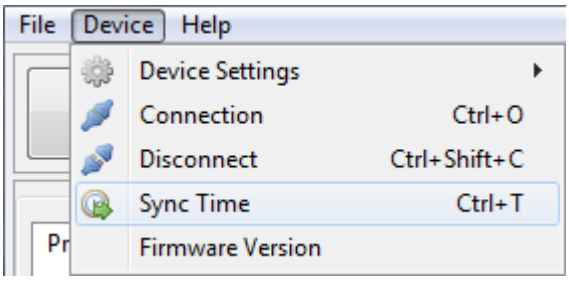
5.1.3 Click OK to save selected Device ID.

5.1.4 For Type B and Type C devices, this feature cannot be used when in Recording or Count Mode, respectively. If the Device ID is attempted to be changed during Recording or Count Mode, an error message will be shown.

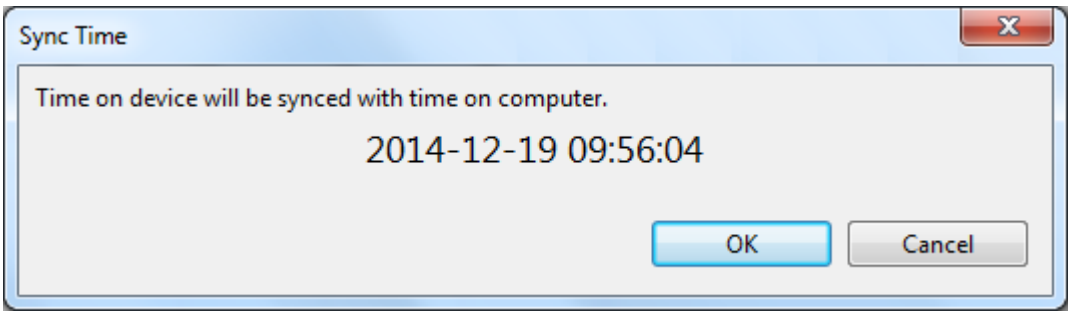


5.2 SYNCHRONIZE DK-5000 DEVICE TIME WITH SYSTEM TIME

5.2.1 Click **Device** in the menu bar, and then select **Sync Time** (Device > Sync Time).

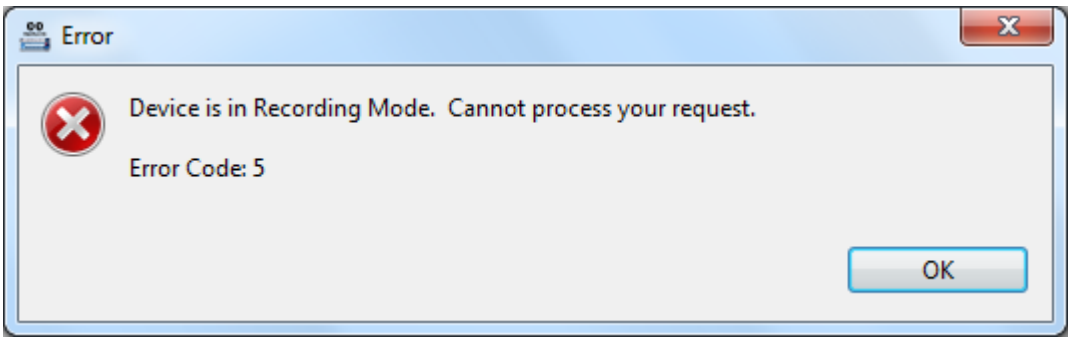


5.2.2 A dialog will appear that shows the current time of the PC.



5.2.3 Click OK to sync the time of DK-5000 device to system time.

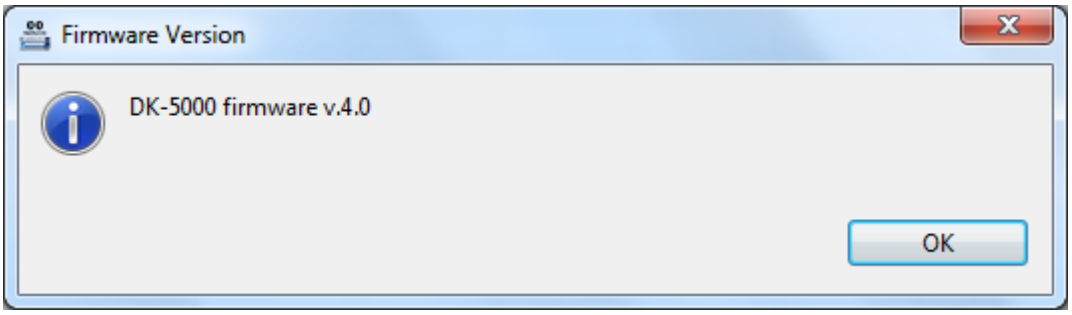
5.2.4 For Type B and Type C devices, this feature cannot be used when in Recording or Count Mode, respectively. If time is attempted to be synced during Recording or Count Mode, an error message will be shown.



6 MISCELLANEOUS FUNCTIONS

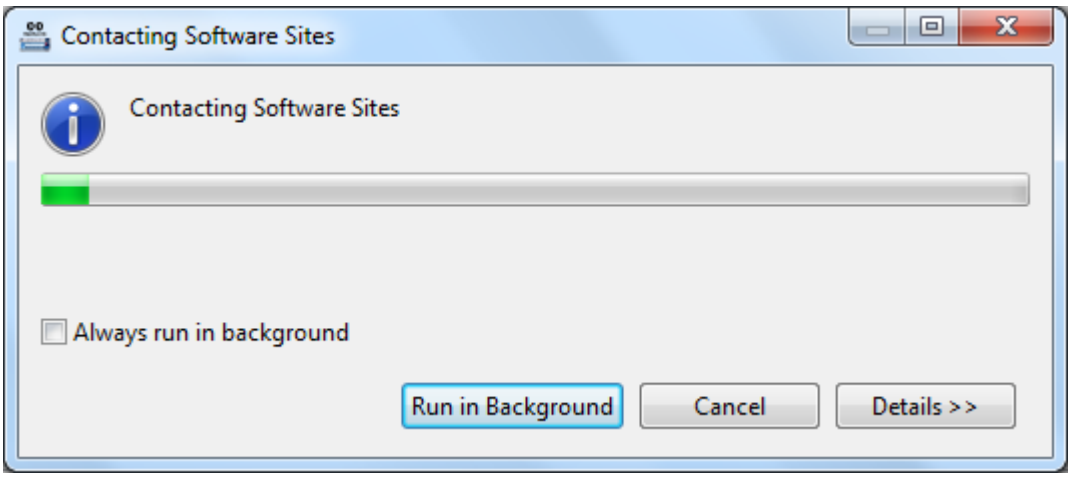
6.1 VIEW DEVICE FIRMWARE VERSION

6.1.1 Click **Device** in the menu bar, and then select **Firmware Version** (Device > Firmware Version). It will show the firmware version of the connected device.

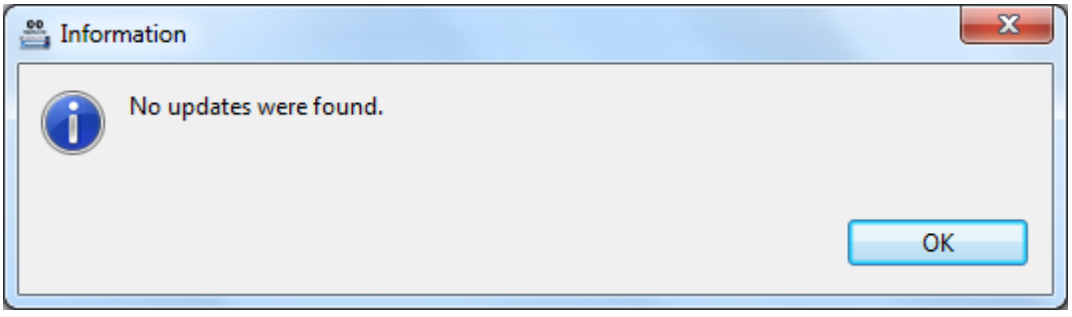


6.2 CHECK FOR SOFTWARE UPDATES

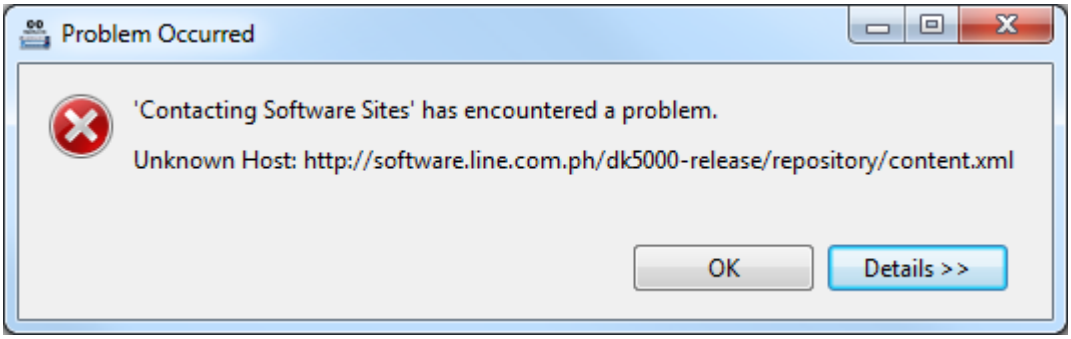
6.2.1 Click **Help** in the menu bar, and then select **Check for Updates** (Help > Check for Updates). It will automatically search for available software updates.



If no updates are available, it will show a message prompt below.



6.2.2 If there is no internet connection or if the software cannot connect to the update server, an error message will appear.

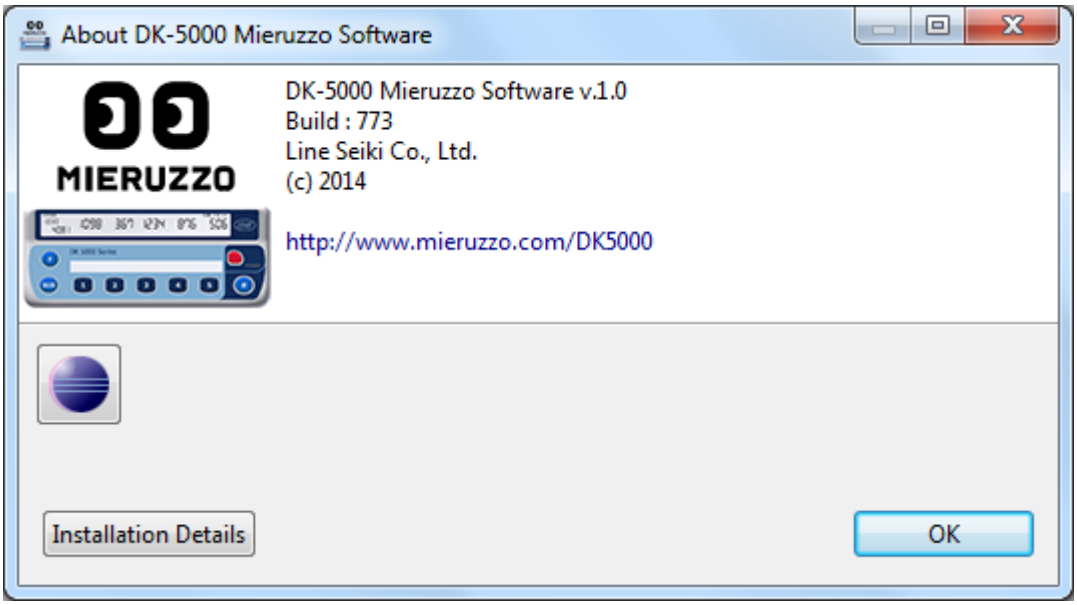


6.3 VIEW SOFTWARE INSTRUCTION MANUAL

6.3.1 Click **Help** in the menu bar, and then select **Manual** (Help > Manual). It will open a copy of the **DK-5000 Mieruzzo Software User's Manual.**

6.4 VIEW SOFTWARE VERSION AND INSTALLATION DETAILS

6.4.1 Click **Help** in the menu bar, and then select **About DK-5000 Mieruzzo Software** (Help > About DK-5000 Mieruzzo Software). It will show the following window which tells the software build version and an option to see the software installation details.



7 FREQUENTLY ASKED QUESTIONS

1. **Why do I get a "no DK-5000 device detected" message when I click Connection even when my device is visibly connected?**

   These are common reasons for not detecting a DK-5000 device, and possible solutions:

   - Make sure your device is connected and turned ON. You cannot connect if the device is turned off.
   - Make sure that the PC recognizes your device. If this is the first time you connected a DK-5000 device, it'll take some time for windows to install the appropriate driver. Please note that our software installation contains the drivers necessary for your DK-5000.
   - We received reports that changing the USB port to connect to help with the OS recognizing the device.

2. **Why do I get an "unknown device" error when I connect the DK-5000 device to my PC?**

   These are 2 possible reasons for unknown device error:

   - Driver installation. Make sure that you've properly followed the software and driver installation.
   - Windows USB Stack issue. This is an issue with Windows' USB stack. Try disconnecting then reconnecting the device, or restarting your PC.

3. **Why can't I sync the time on my DK-5000 device to the PC time?**

   It is possible that your device is in Recording or Count Mode. There are restrictions to setting the time when the device is not on Standby Mode (for Type B and C devices). Make sure you go to Standby Mode first before syncing the time.

4. **Why can't I change the time on my DK-5000 device?**

   It is possible that your device is in Recording or Count Mode. There are restrictions to setting the time when the device is not on standby mode (for Type A and B). Make sure you go to standby mode first before setting the time.

5. **Why can't I change the Device ID on my DK-5000 device?**

   You cannot change the Device ID on your DK-5000 device if it is connected to the DK-5000 Mieruzzo Software. Use the Set Device ID function of the software to change the Device ID.

6. **I already disconnected the device from the software, why can't I change the Device ID on my DK-5000 device?**

   It is possible that your device is in Recording or Count Mode. There are restrictions to editing the Device ID when the device is not on Standby Mode (for Type B and C devices). Make sure you go to Standby Mode first before changing the Device ID.

7. **Why are my old records missing in the device memory?**

   Your DK-5000 has limited memory and will erase the earliest record to free up space for new ones. To avoid this, please refer to the manual and save your records using our DK-5000 Mieruzzo Software before clearing the device memory.

8. **Why don't I get back to the default folder DK-5000 when I export my records?**

   We have an initial folder DK-5000, but the software remembers the last folder where the user saved last export. You may choose not to use the DK-5000 folder. But you should be able to find it again under your Documents folder.

For more information, please visit www.lineseiki.com.

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